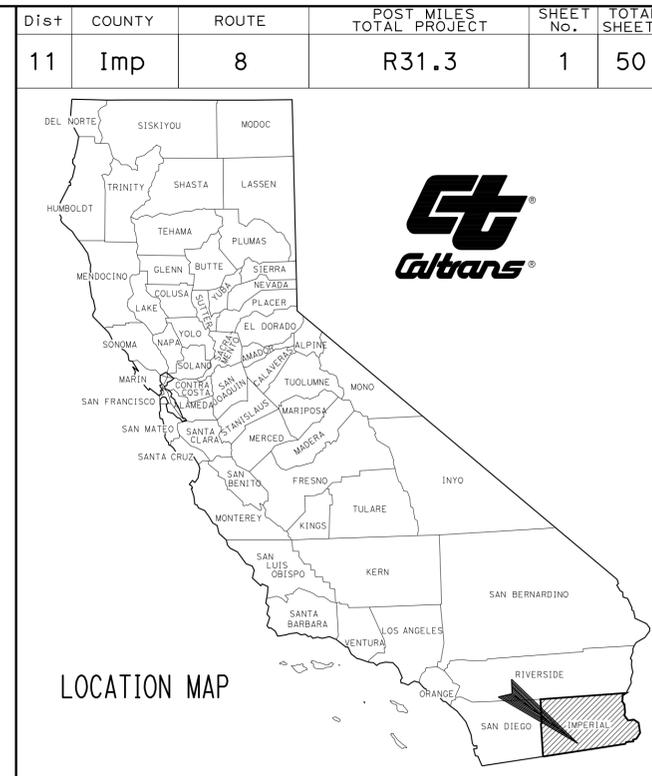


**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION**

**PROJECT PLANS FOR BUILDING CONSTRUCTION ON
STATE HIGHWAY
IN IMPERIAL COUNTY
NEAR EL CENTRO
AT SUNBEAM REST AREA**

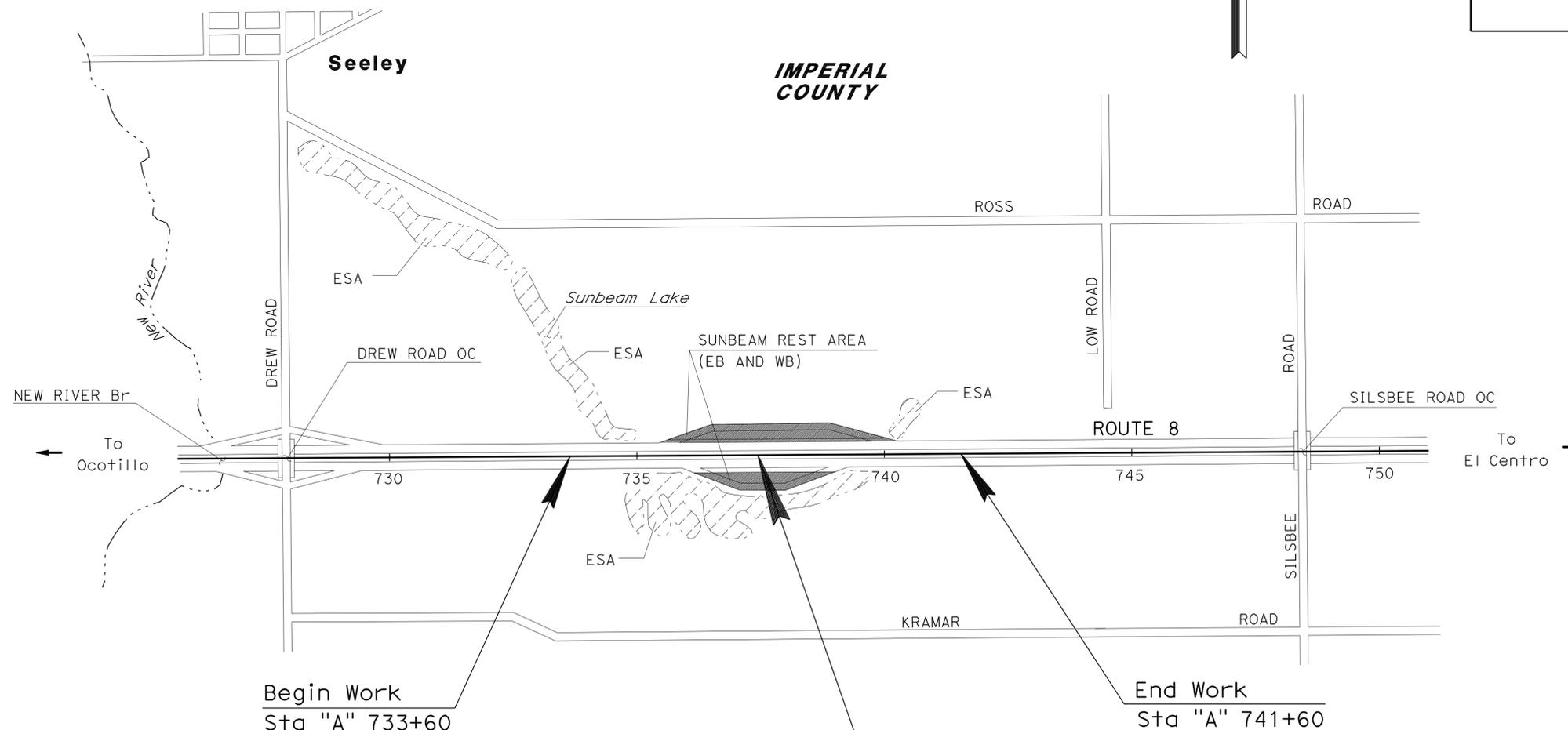
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	PROJECT CONTROL
3	LAYOUT
4	TEMPORARY WATER POLLUTION CONTROL PLAN
5-6	UTILITY PLANS
7	CONSTRUCTION AREA SIGNS
8	SUMMARY OF QUANTITIES
9-11	PLANT LIST, PLANT REMOVAL AND IRRIGATION REMOVAL PLANS
12	LANDSCAPE DETAILS
13-24	REVISED STANDARD PLANS
BUILDING PLANS	
25	GENERAL PLAN
26-36	SANITARY SEWER PLANS
37-48	ELECTRICAL PLANS
49-50	LOG OF TEST BORING

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



- ENVIRONMENTALLY SENSITIVE AREA

Begin Work Sta "A" 733+60 End Work Sta "A" 741+60

**LOCATION OF CONSTRUCTION
Sta "A" 737+65 PM R31.3**

Kenneth L. Mah
LICENSED LANDSCAPE ARCHITECT



March 21, 2011

PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	11-261524
PROJECT ID	1100000212

NO SCALE

PROJECT MANAGER
SAM AMEN

SENIOR LANDSCAPE ARCHITECT
STEPHEN ALVAREZ

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

DATE PLOTTED => 23-MAR-2011
TIME PLOTTED => 11:52
LAST REVISION: 12-21-10

NOTES:

- CONTACT DISTRICT 11 DIVISION OF LAND SURVEYS, PHONE (858)467-4305, FOR ADDITIONAL INFORMATION OR QUERIES REGARDING THIS SURVEY PROJECT CONTROL.
- BASIS OF BEARINGS AND COORDINATES**
FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, HPGN EPOCH ADJUSTMENT [CCS 83 (1991.35)], ZONE 6. 3RD ORDER PROJECT CONTROL STATIONS WERE ESTABLISHED IN DECEMBER 1998 ACCORDING TO CRITERIA SET FORTH IN THE FEDERAL GEODETIC CONTROL SUBCOMMITTEE'S "GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES" REPRINTED AUGUST 1, 1989.

THIS GPS FAST STATIC SURVEY WAS CONSTRAINED TO 1ST ORDER CONTROL STATIONS "F 612" AND "D 1223" PER THE ABOVE-REFERENCED STANDARDS.
- BASIS OF ELEVATIONS**
FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). PLUS 328.08 FEET. ELEVATIONS WERE ESTABLISHED BY GPS FAST STATIC SURVEY CONSTRAINING TO 1ST ORDER STATION "D1223" AND "F612".
- IN THE EVENT GPS MACHINE CONTROL/GUIDANCE IS USED FOR THIS PROJECT, THE CONTRACTOR SHALL CONTACT OR MEET WITH DISTRICT 11'S LAND SURVEY DIVISION TO OBTAIN THE CONTROL NECESSARY TO ESTABLISH A PROJECT CALIBRATION COMPATIBLE FOR ALL USERS.

ABBREVIATIONS:

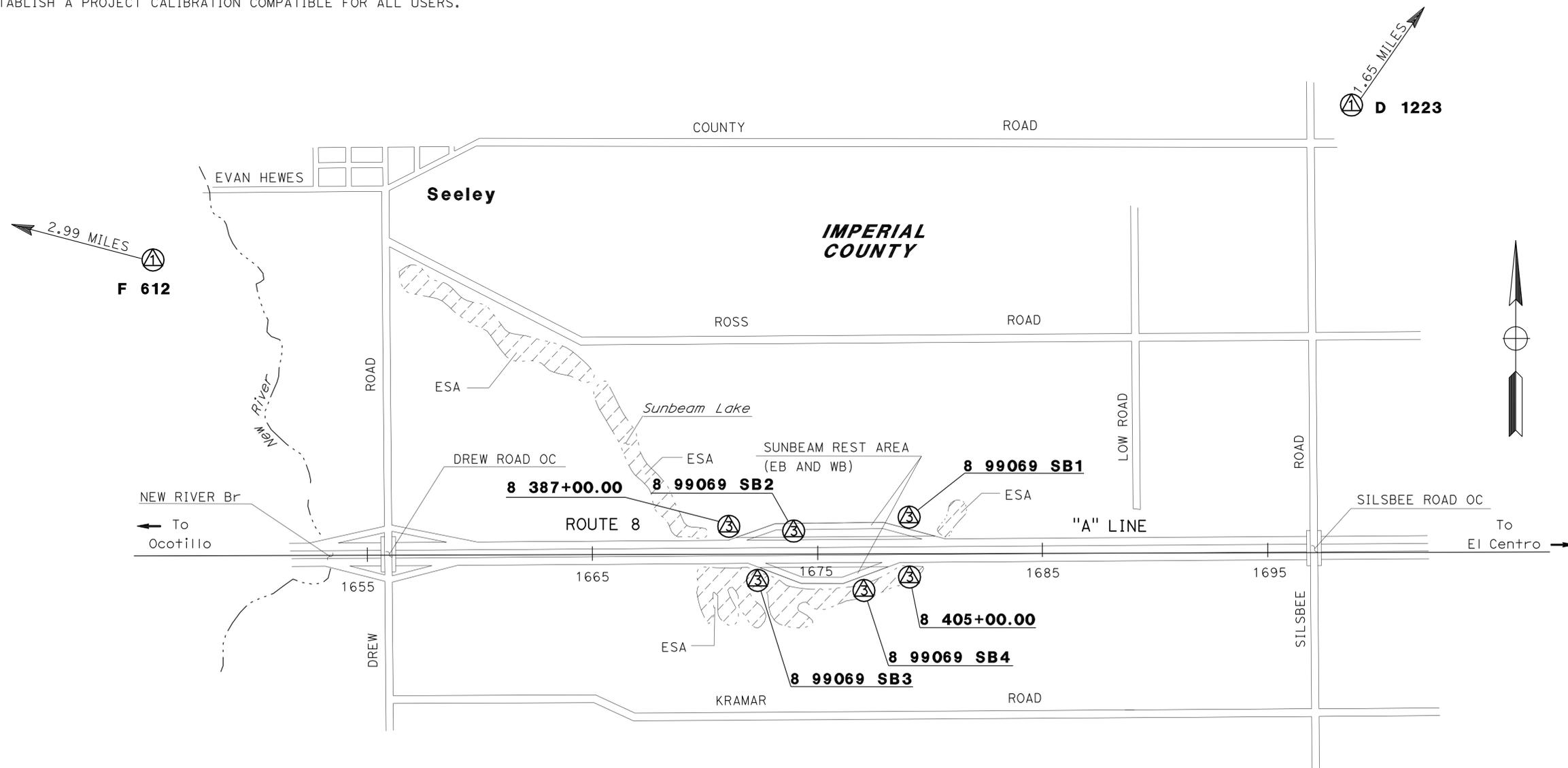
USC & GS UNITED STATES COAST & GEODETIC SURVEY

LEGEND:

-  1ST ORDER STATION
-  3RD ORDER STATION
-  ENVIRONMENTALLY SENSITIVE AREA

CONTROL FOR DESIGN AND CONSTRUCTION

STATION DESIGNATION	ORDER	NORTHING	EASTING	ELEVATION	DESCRIPTION
D 1223	1ST	1,871,390.16	6,747,139.47	298.01	3 1/2" USC & GS BRASS DISK
F 612	1ST	1,867,235.98	6,721,668.56	295.28	3 1/2" USC & GS BRASS DISK
8 387+00.00	3RD	1,861,979.07	6,739,228.35	293.08	1" IRON PIPE W/BRASS TAG
8 405+00.00	3RD	1,861,770.89	6,741,029.04	292.49	1" IRON PIPE W/BRASS TAG
8 99069 SB1	3RD	1,862,065.66	6,740,647.27	296.30	2" X 2" HUB AND TACK
8 99069 SB2	3RD	1,862,072.81	6,739,839.76	297.03	2" X 2" HUB AND TACK
8 99069 SB3	3RD	1,861,744.36	6,739,539.54	293.98	2" X 2" HUB AND TACK
8 99069 SB4	3RD	1,861,758.90	6,740,562.94	293.61	2" X 2" HUB AND TACK



PROJECT CONTROL
PC-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LAND SURVEYS DIVISION
 Et Caltrans®

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	3	50

Kenneth L. Mah
 LICENSED LANDSCAPE ARCHITECT
 3-21-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

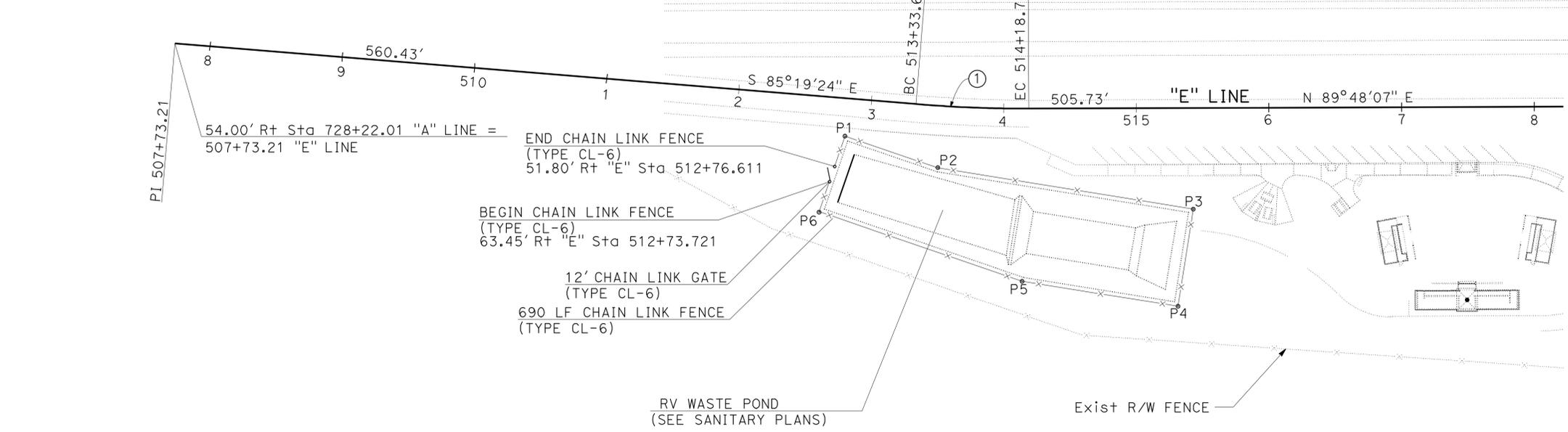
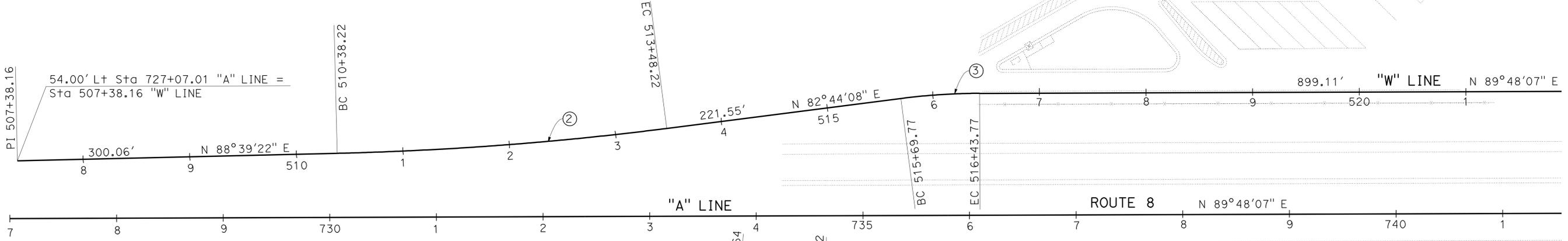
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:
 RV - RECREATIONAL VEHICLE

IMPERIAL COUNTY



CURVE	R	Δ	T	L
①	1,000.00'	5° 43' 46"	42.57'	85.08'
②	3,000.00'	5° 55' 14"	155.14'	310.00'
③	600.00'	7° 03' 59"	37.05'	74.00'



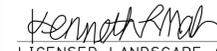
POINT	STATION	Rt/Lt	OFFSET
P1	512+82.55 "E" LINE	Rt	28.27'
P2	513+53.44 "E" LINE	Rt	46.67'
P3	515+42.69 "E" LINE	Rt	76.01'
P4	515+30.70 "E" LINE	Rt	149.03'
P5	514+14.24 "E" LINE	Rt	129.87'
P6	512+67.81 "E" LINE	Rt	86.47'
P7	516+94.01 "W" LINE	Lt	236.00'
P8	520+30.01 "W" LINE	Lt	236.00'
P9	520+30.01 "W" LINE	Lt	180.00'
P10	516+94.01 "W" LINE	Lt	180.00'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 MICHAEL REYES
 KENNY MAH
 REVISOR
 DATE
 CALCULATED/DESIGNED BY
 CHECKED BY
 STEPHEN ALVAREZ

LAYOUT
 SCALE: 1" = 50' **L-1**

LAST REVISION | DATE PLOTTED => 23-MAR-2011
 12-21-10 | TIME PLOTTED => 07:45

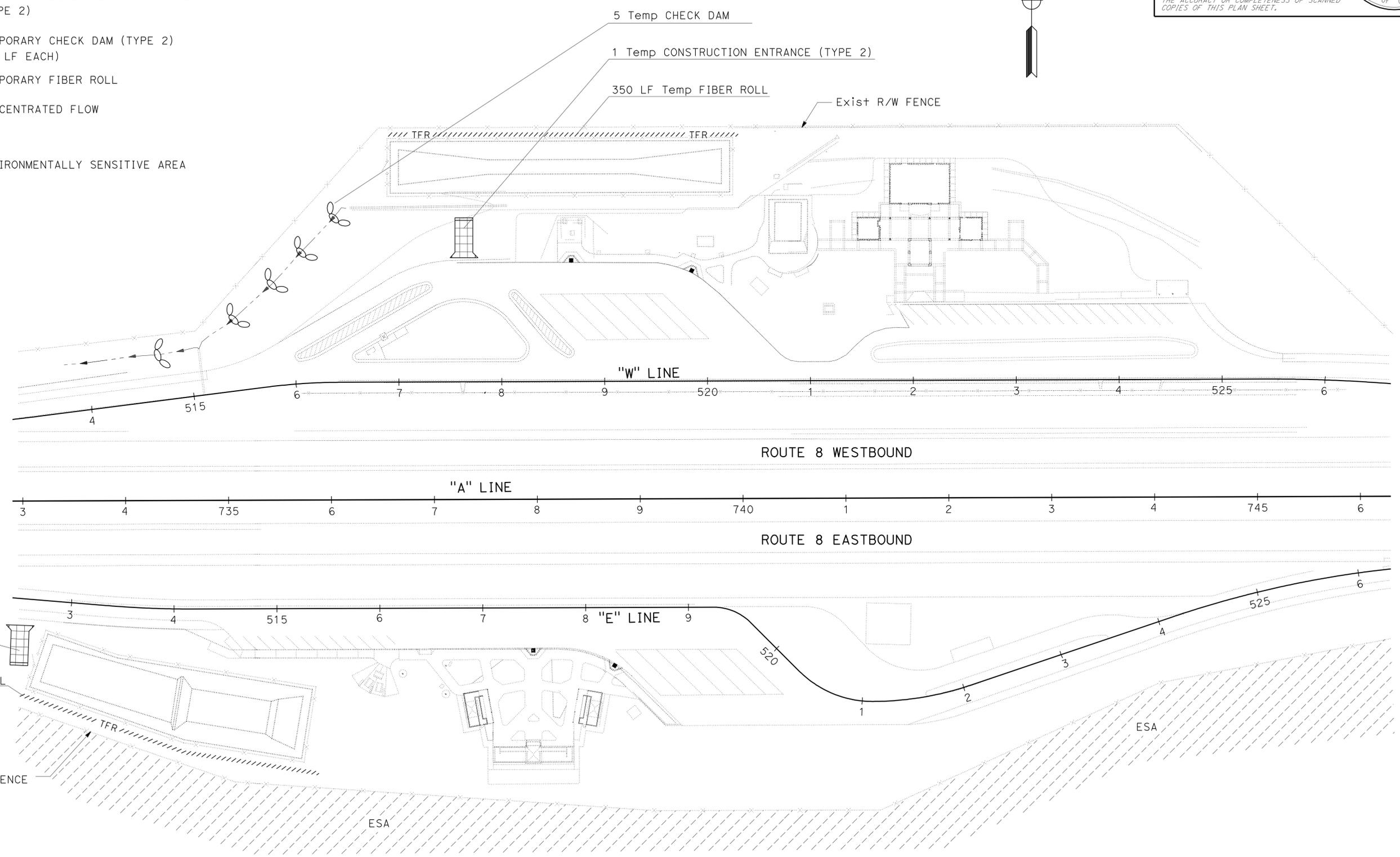
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	4	50

 LICENSED LANDSCAPE ARCHITECT		
3-21-11 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

- LEGEND:**
-  TEMPORARY CONSTRUCTION ENTRANCE (TYPE 2)
 -  TEMPORARY CHECK DAM (TYPE 2) (10 LF EACH)
 -  TEMPORARY FIBER ROLL
 -  CONCENTRATED FLOW
 -  ENVIRONMENTALLY SENSITIVE AREA

IMPERIAL COUNTY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 CATALINA FLORES
 REVISED BY: [blank]
 DATE REVISED: [blank]
 KENNY MAH

SUNBEAM REST AREA - EAST AND WEST BOUND

TEMPORARY WATER POLLUTION CONTROL PLAN
WPC-1

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTON CONTROL WORK ONLY.

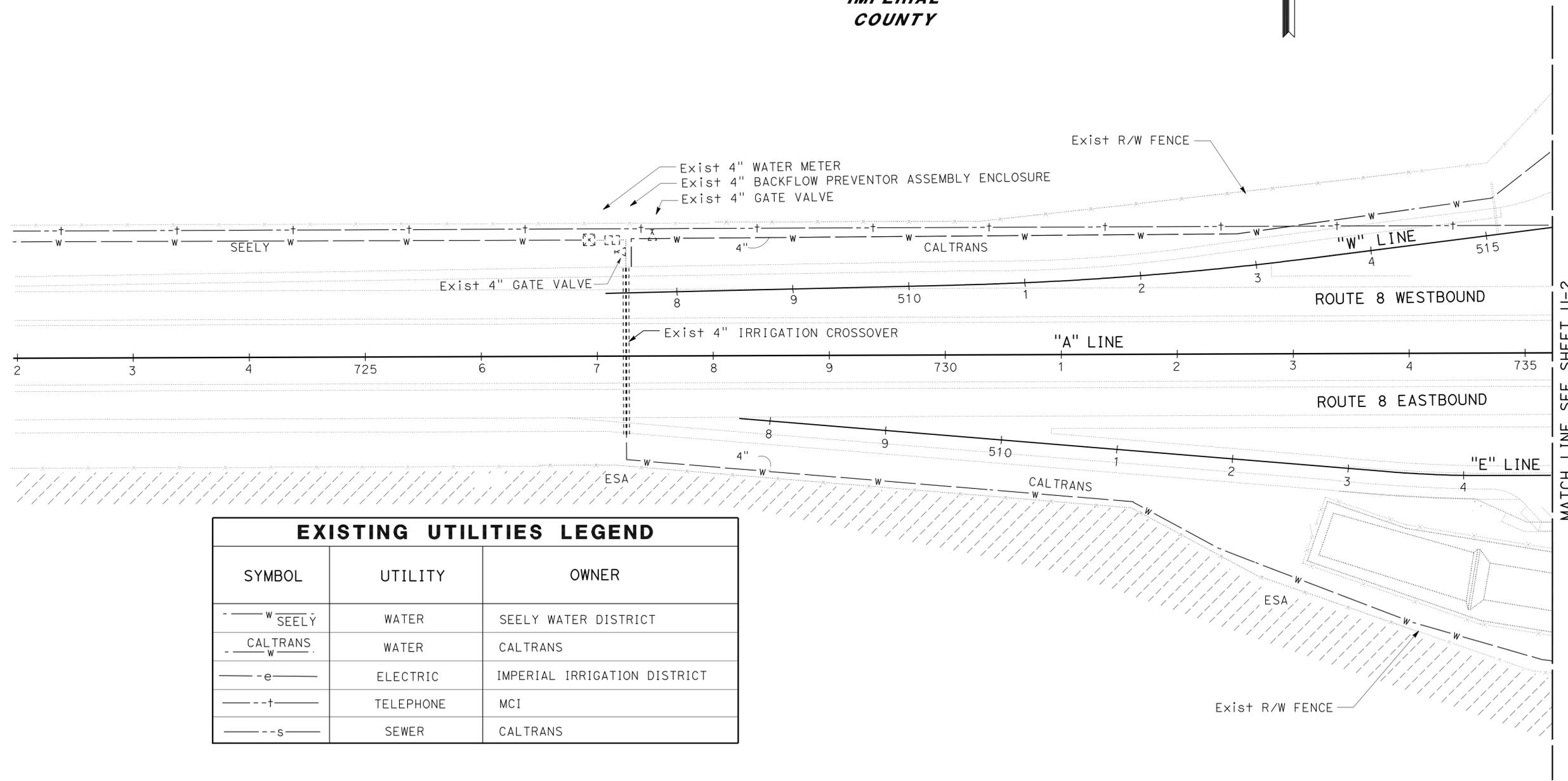
SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	5	50

12-17-10
 REGISTERED CIVIL ENGINEER DATE
 ANH HOANG
 No. C66009
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - UTILITIES SHALL BE FIELD VERIFIED.

IMPERIAL COUNTY



EXISTING UTILITIES LEGEND		
SYMBOL	UTILITY	OWNER
-w- SEELY	WATER	SEELY WATER DISTRICT
-w- CALTRANS	WATER	CALTRANS
-e-	ELECTRIC	IMPERIAL IRRIGATION DISTRICT
-+-	TELEPHONE	MCI
-s-	SEWER	CALTRANS

ABBREVIATION:
 BPAE - BACKFLOW PREVENTER ASSEMBLY ENCLOSURE

LEGEND:
 - ENVIRONMENTALLY SENSITIVE AREA

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
U-1
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ENGINEERING SERVICES
 FUNCTIONAL SUPERVISOR: ABU-BAKR AL-JAFRI
 CALCULATED/DESIGNED BY: KENNY MAH
 CHECKED BY: ANH HOANG
 REVISED BY: KENNY MAH
 DATE REVISED: ANH HOANG

LAST REVISION: DATE PLOTTED => 23-MAR-2011
 12-22-10 TIME PLOTTED => 07:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	6	50

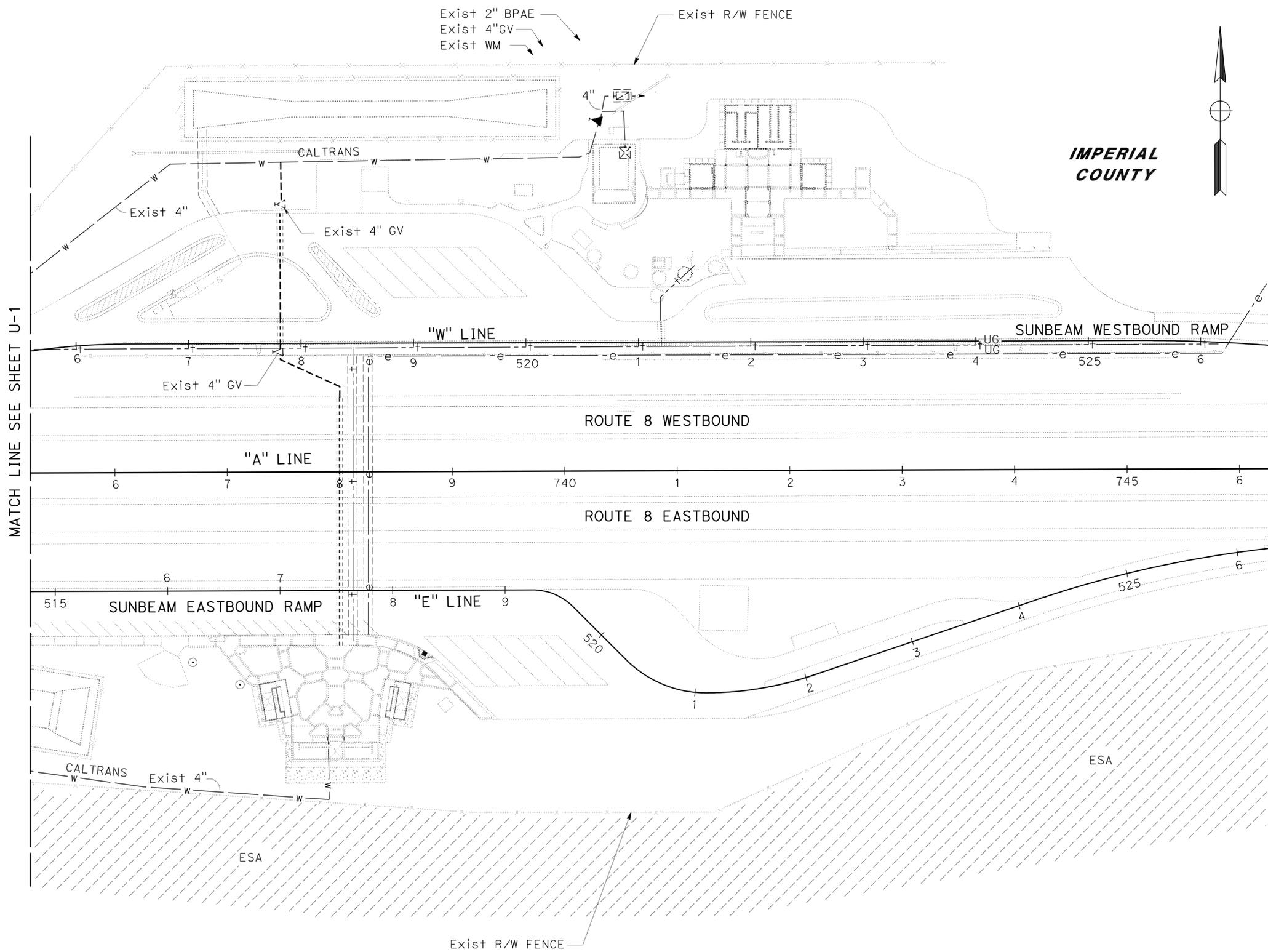
<i>Anh Hoang</i>	12-17-10
REGISTERED CIVIL ENGINEER	DATE
3-21-11	
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. UTILITIES SHALL BE FIELD VARIFIED.



MATCH LINE SEE SHEET U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans ENGINEERING SERVICES	ABU-BAKR AL-JAFRI	KENNY MAH	
		ANH HOANG	

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
U-2
 SCALE: 1" = 50'

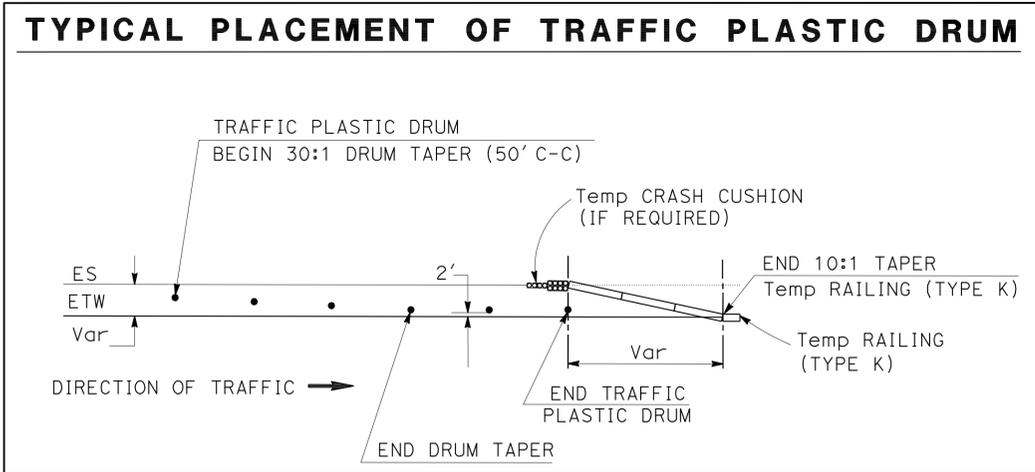
LAST REVISION DATE PLOTTED => 23-MAR-2011 12:22:10 TIME PLOTTED => 07:45

NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA SPECIFICATIONS ARE USED.
- EXISTING UTILITIES ARE NOT SHOWN ON THIS SECTION OF THE PLANS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND:

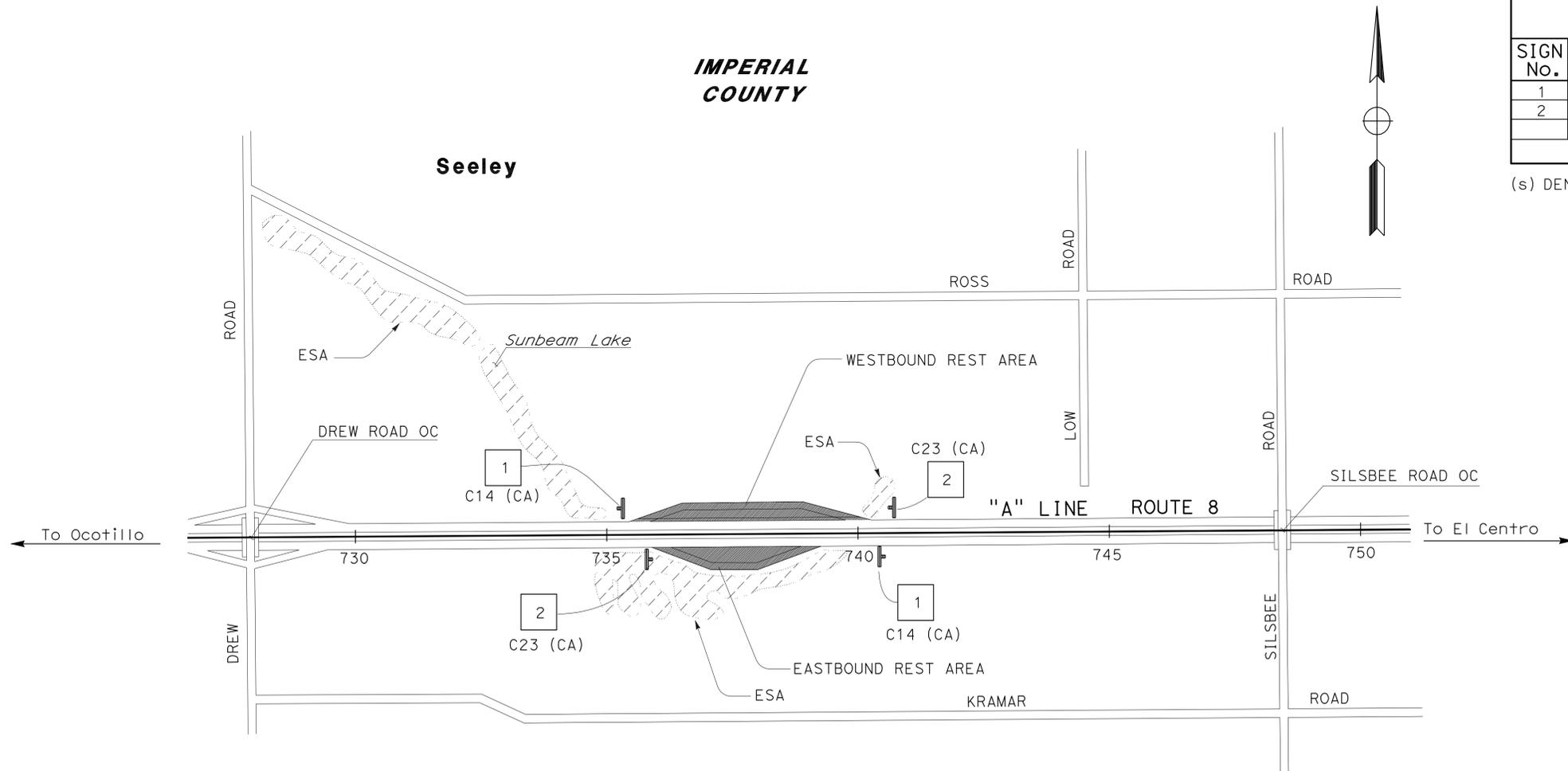
- X CONSTRUCTION AREA SIGN
- ESA ENVIRONMENTALLY SENSITIVE AREA



CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	C14 (CA)	48 X 24	1-4 X 4 (s)	2
2	C23 (CA)	48 X 48	1-4 X 6 (s)	2
TOTAL				4

(s) DENOTES STATIONARY MOUNTED SIGN



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - TRAFFIC DESIGN

Caltrans

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADDEL

IRAM SYED: SHAHIN T. ADIBI

REVISOR: IRAM SYED

DESIGNER: CAMILLE ABOUFADDEL

CHECKED BY: IRAM SYED

DATE: 12-17-10

DATE: 3-21-11

DATE: 7/2/2010

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 STEPHEN ALVAREZ

CATALINA FLORES
 KENNY MAH

REVISOR BY
 DATE REVISED

**CHAIN LINK FENCE
 (TYPE CL-6)**

SHEET	LF
L-1	1,470
TOTAL	1,470

**12' CHAIN LINK GATE
 (TYPE CL-6)**

SHEET	EA
L-1	2
TOTAL	2

**DECOMPOSED GRANITE
 (N)**

SHEET	SQFT
PI-1	11,460
TOTAL	11,460

(N) NOT A SEPARATE PAY ITEM.
 FOR INFORMATION ONLY.

**TEMPORARY
 WATER POLLUTION CONTROL
 QUANTITIES**

SHEET	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY CHECK DAM	TEMPORARY FIBER ROLL
	(EA)	(LF)	(LF)
WPC-1	2	50	650
TOTAL	2	50	650

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	8	50

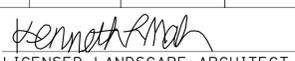
Kenneth L. Mah
 LICENSED LANDSCAPE ARCHITECT

3-21-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

**SUMMARY OF QUANTITIES
 Q-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	9	50


 LICENSED LANDSCAPE ARCHITECT
 3-21-11
 PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ABBREVIATIONS:

AMEND — AMENDMENT	Max — MAXIMUM
B&B — BALLED AND BURLAPPED	Min — MINIMUM
Di — DIAMETER	NCN — NO COMMON NAME
EA — EACH	No. — NUMBER
Ib — POUND	PKt — PACKET
Oz — OUNCE	PLT ESTB — PLANT ESTABLISHMENT
Ft — FOOT/FEET	Pvmt — PAVEMENT
SQFT — SQUARE FOOT	R/W — RIGHT OF WAY
CF — CUBIC FOOT	SF — STATE-FURNISHED
SQYD — SQUARE YARD	TAB — TABLET(S)
CY — CUBIC YARD	TRVD — TRAVELED

APPLICABLE WHEN CIRCLED:

- 1 - QUANTITIES SHOWN ARE 'PER PLANT' UNLESS SHOWN AS SQYD APPLICATION RATES.
- ② - SUFFICIENT TO RECEIVED ROOT BALL.
- 3 - FOLIAGE PROTECTOR.
- ④ - AS SHOWN ON PLANS.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.
- ⑥ - SEE STANDARD DETAIL.
- 7 - SEE SPECIAL PROVISIONS.
- 8 - MULCH (3" DEEP).

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE	SOIL Amend	COMMERCIAL FERTILIZER ①		BASIN MULCH (CY)	STAKING	PLANTING LIMITS						REMARKS
							Di	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (Ft) FROM				ON CENTER (Ft)		
																TRVD WAY	Pvmt	FENCE	WALL		PAVED DITCH	
B	1	⊕	<u>CAESALPINIA</u> <u>GILLIESII</u>	BIRD OF PARADISE BUSH	No. 5	34	②	②	I	-	-	-	-	0.1	-	-	-	-	-	-	④	SHRUB
	2	⊕	<u>NOLINA</u> <u>PARRYI</u>	PARRY'S NOLINA	No. 5	57	②	②	I	-	-	-	-	0.1	-	-	-	-	-	-	④	SHRUB
U	3	⊕	<u>EUCALYPTUS</u> <u>MICROTHECA</u>	COOLIBAH	No. 15	6	②	②	I	-	-	-	-	0.1	⑥	-	-	-	-	-	④	TREE

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAMES INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

LEGEND:

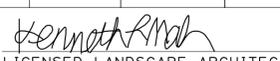


- DECOMPOSED GRANITE (DG) (3" DEEP)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 SENIOR LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECTURE
 KENNY MAH
 CATALINA FLORES
 REVISOR
 DATE REVISOR
 CHECKED BY
 DESIGNED BY
 ALVAREZ

**PLANT LIST
PL-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	10	50
 LICENSED LANDSCAPE ARCHITECT 3-21-11 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
					

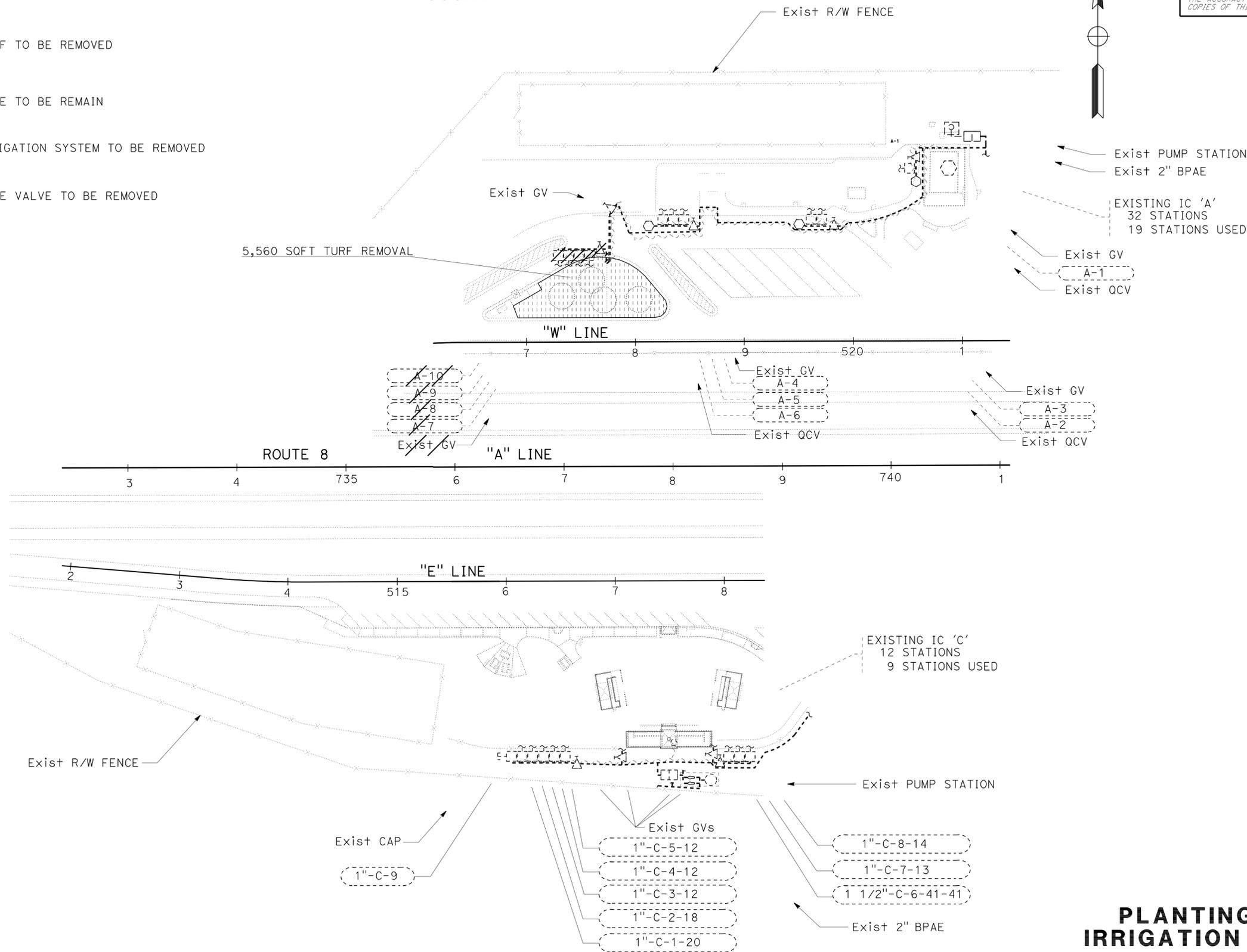
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

-  - EXISTING TURF TO BE REMOVED
-  - EXISTING TREE TO BE REMAIN
-  - EXISTING IRRIGATION SYSTEM TO BE REMOVED
-  - EXISTING GATE VALVE TO BE REMOVED

IMPERIAL COUNTY



PLANTING REMOVAL AND IRRIGATION REMOVAL PLAN
PR-1

SCALE: 1" = 50'

THIS PLAN ACCURATE FOR PLANTING AND IRRIGATION REMOVAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ
 CALCULATED/DESIGNED BY: CHECKED BY:
 CATALINA FLORES KENNY MAH
 REVISED BY: DATE REVISED:

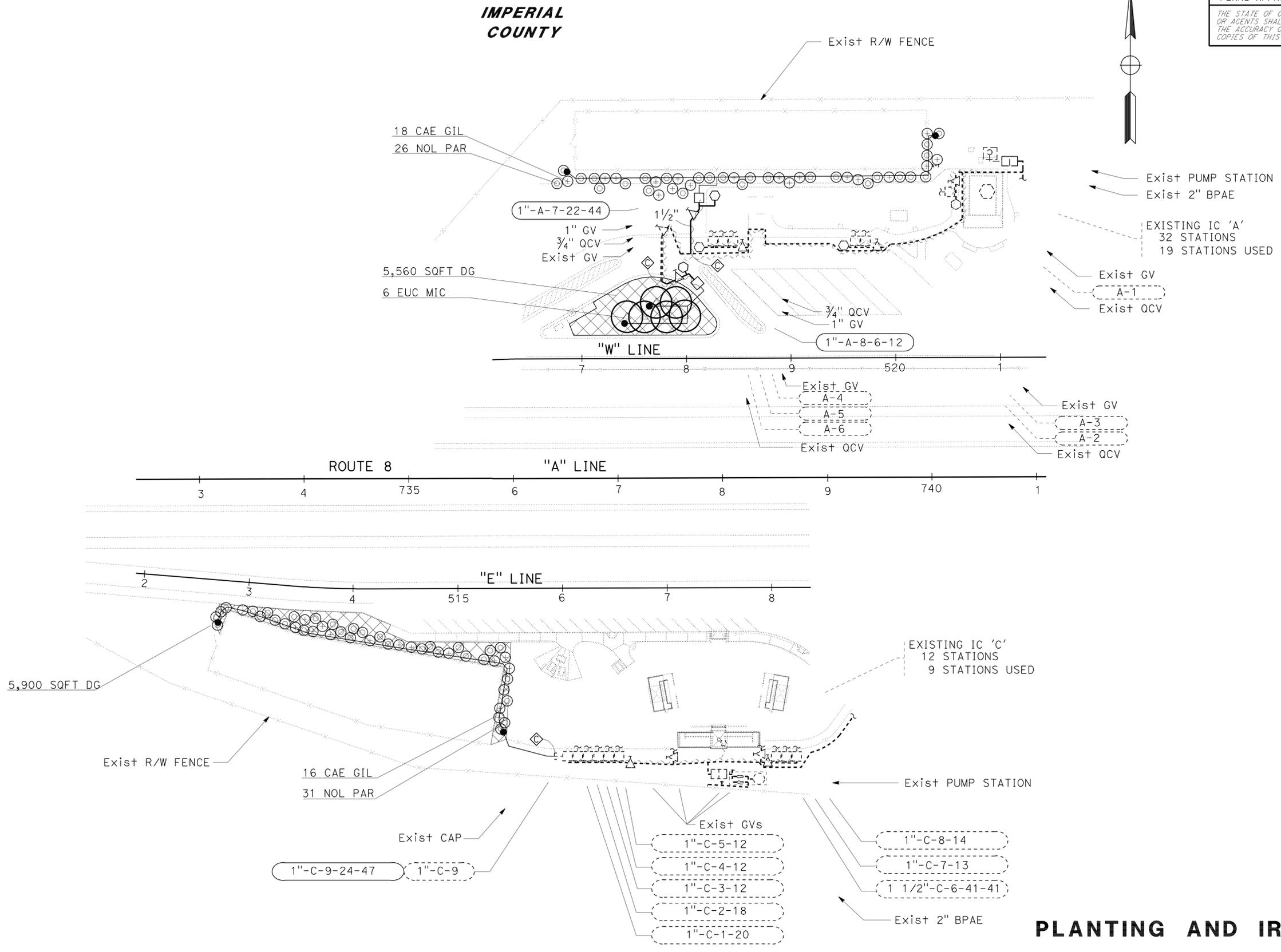
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	11	50

Kenneth R. Mah
 LICENSED LANDSCAPE ARCHITECT
 3-21-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
 KENNETH L. MAH No. 3030
 Signature
 02-29-12
 Renewal Date
 12-17-10
 Date
 STATE OF CALIFORNIA

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PLANTING AND IRRIGATION PLAN
PI-1

SCALE: 1" = 50'

THIS PLAN ACCURATE FOR PLANTING AND IRRIGATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
STEPHEN ALVAREZ

CATALINA FLORES
KENNY MAH

REVISOR BY
DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 KENNETH MAH
 SENIOR LANDSCAPE ARCHITECT
 CATALINA FLORES
 KENNY MAH
 CALCULATED, DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	12	50

Kenneth Mah
 LICENSED LANDSCAPE ARCHITECT
 3-21-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS / MINUS 5% ②					MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT) (DN IN INCHES)(INCH)	POSITIVE-LOCKING ADJ ARC STOP	BACKSLASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER					REMARKS				
						DISCHARGE			RADIUS (F+)	WIDTH x LENGTH (F+)									TYPE	MATERIAL		SIZE (IPS) (INCH)	HEIGHT (INCH)		FLOW SHUTOFF DEVICE	SWING JOINT (TYPE)	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)
						GALLONS PER SECOND (GPS)	GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)												PLASTIC	GALVANIZED							
●	C-2	FLOOD BUBBLER	-	30	X	-	0.5	-	-	-	PL	-	1/2	-	-	-	-	I	X	-	1/2	6	-	I	-	-	④⑤⑨	

X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- SEE SPECIAL PROVISIONS.
- IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- SHALL HAVE AN INTERNAL OR EXTERNAL CHECK VALVE.
- NON-ADJUSTABLE DISCHARGE RATE.
- INSTALL ONE BUBBLER PER SHRUB, AND TWO BUBBLERS PER TREE.
- UNLESS OTHERWISE SHOWN ON PLANS.
- ADJUSTABLE ARC.
- MATCHED PRECIPITATION RATE NOZZLES.
- REFER TO PIPE SIZING CHARTS.

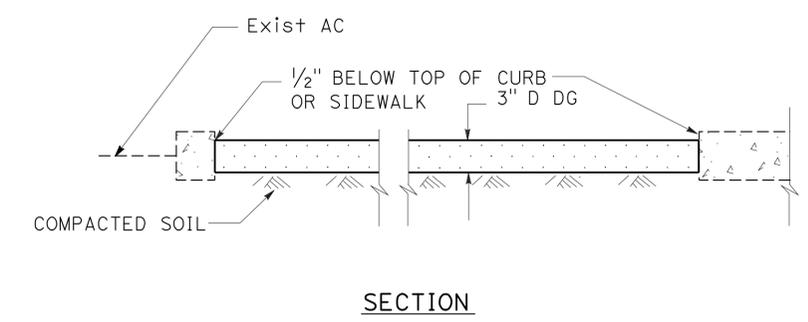
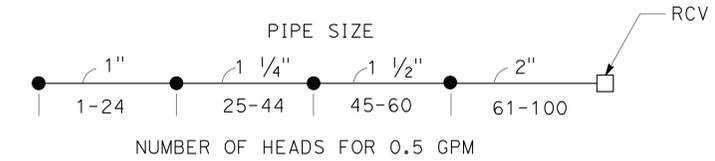
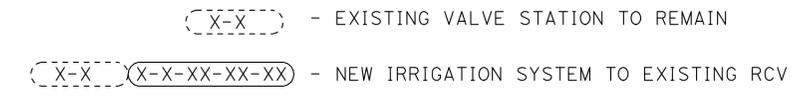
ABBREVIATIONS:

ADJ — ADJUSTABLE	H — HALF CIRCLE
B/B — BRASS/BRONZE	IPS — IRON PIPE SIZE
B/B/PL — BRASS/BRONZE/PLASTIC	NPT — NATIONAL PIPE THREAD
B/PL — BRASS/PLASTIC	P — PART CIRCLE
CST — CENTER STRIP	PL — PLASTIC
DN — DIAMETER NOMINAL	PSI — POUNDS PER SQUARE INCH
EST — END STRIP	Q — QUARTER CIRCLE
F+ — FEET	SST — SIDE STRIP
F — FULL CIRCLE	T — THIRD CIRCLE
F/P — FULL/PART CIRCLE	TQ — THREE QUARTER CIRCLE
GPH — GALLONS PER HOUR	TT — TWO THIRDS CIRCLE
GPM — GALLONS PER MINUTE	
GPS — GALLONS PER SECOND	

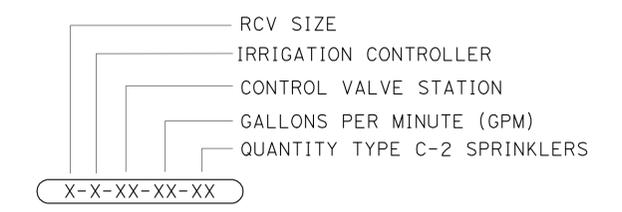
NOTES:

- ALL LATERAL PIPE NOT LABELED SHALL BE 1 INCH, OR AS SHOWN ON PIPE SIZING CHARTS.
- ALL NEW MAINLINE PIPE WHICH HAS A CHANGE IN DIRECTION OF 90° OR MORE SHALL HAVE TWO 45° ELBOWS.

LEGEND:



DECOMPOSED GRANITE (DG)



LANDSCAPE DETAILS
NO SCALE **LD-1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	13	50

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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To accompany plans dated 3-21-11

2006 REVISED STANDARD PLAN RSP H1

A

AB aggregate base
 ABS acrylonitrile-butadiene-styrene
 AC asphalt concrete
 Adj adjacent/adjustable
 AIC auxiliary irrigation controller
 Alt alternative
 AMEND amendment
 ARV air release valve
 AUTO automatic
 AUX auxiliary
 AVB atmospheric vacuum breaker

B

B&B balled and burlapped
 B/B brass/bronze
 B/B/PL brass/bronze/plastic
 B/PL brass/plastic
 BFM bonded fiber matrix
 Bit C+D bituminous coated
 BP booster pump
 BPA backflow preventer assembly
 BPAE backflow preventer assembly in enclosure
 BPE backflow preventer enclosure
 BV ball valve

C

CAP corrugated aluminum pipe
 CARV combination air release valve
 CCA cam coupler assembly
 CEC controller enclosure cabinet
 CHDPE corrugated high density polyethylene
 CL chain link
 CNC control and neutral conductors
 Conc concrete
 Cond conduit
 CSP corrugated steel pipe
 CST center strip
 CV check valve

D

Dia diameter
 DIP ductile iron pipe
 DN diameter nominal

E

EA each
 Elect electric/electrical
 Elev elevation
 ENCL enclosure
 EP edge of pavement
 ES edge of shoulder
 EST end strip
 ESTB establishment
 ETW edge of traveled way

F

F full circle
 F/P full/part circle
 FAU filter assembly unit
 FCV flow control valve
 FERT fertilizer
 FG finished grade
 FIPT female iron pipe thread
 FIS fertilizer injector system
 FL flow line
 FM flow monitor
 FS flow sensor
 Ft foot/feet
 FV flush valve

G

GAL Gallon(s)
 Galv galvanized
 GARV garden valve
 GPH gallons per hour
 GPM gallons per minute
 GSP galvanized steel pipe
 GV gate valve

H

H half circle
 HB hose bib
 HDPE high density polyethylene
 HP horsepower/hinge point
 HPL high pressure line
 Hwy highway

I

IC irrigation controller
 ICC irrigation controller(s) in controller enclosure cabinet
 ID inside diameter
 In inches
 IFS irrigation filtration system
 IPS iron pipe size
 IPT iron pipe thread
 Irr irrigation

L

L length
 LF linear foot

M

Max maximum
 MBGR metal beam guard railing
 MCV manual control valve
 MIC master irrigation controller
 Min minimum
 MIPT male iron pipe thread
 Misc miscellaneous
 M+I material
 MVP maintenance vehicle pullout

N

NCN no common name
 NL nozzle line
 No. number
 NPT national pipe thread

O

O/C on center
 OD outside diameter
 Oz ounce

P

P part circle
 PB pull box
 PCC portland cement concrete
 PE polyethylene
 PK+ packet
 PL plastic
 PLT plant/planting
 PLT ESTB plant establishment
 PM post mile
 PR pressure rated
 PRLV pressure relief valve
 PSFM polymer stabilized fiber matrix
 PSI pounds per square inch
 PRV pressure reducing valve
 PVC polyvinyl chloride
 Pvm+ pavement

Q

Q quarter circle
 QCV quick coupling valve

R

R radius
 RCP reinforced concrete pipe
 RCV remote control valve
 RCVM remote control valve (master)
 RCVMF remote control valve (master) w/ flow meter
 RCW recycled/reclaimed water
 RECP rolled erosion control product
 REQ required
 R/W right of way

S

S slip
 SCC sprinkler control conduit
 SCH schedule
 SF state-furnished
 Shld shoulder
 SQFT square foot/feet
 SQYD square yard(s)
 SST side strip
 Sta station
 Std standard
 SW sidewalk/sound wall

T

T third circle/thread
 TLS truck loading standpipe
 TQ three quarter circle
 TRM turf reinforcement mat
 TRVD traveled
 TT two third circle
 Typ typical

U

UG underground

V

VAU valve assembly unit

W

W width
 W/ with
 WM water meter
 WS wye strainer
 WSP welded steel pipe
 WWM welded wire mesh

NOTE:
 FOR ADDITIONAL ABBREVIATIONS,
 SEE STANDARD PLANS A10A AND A10B.

**PLANTING AND IRRIGATION
 ABBREVIATIONS**

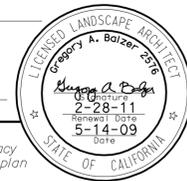
NO SCALE

RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1
 DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	14	50

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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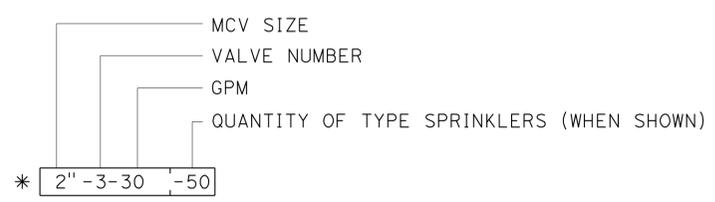
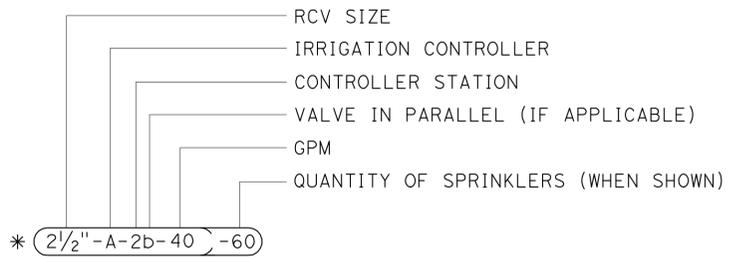


To accompany plans dated 3-21-11

EXISTING	PROPOSED	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC)/ IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		SPRINKLER CONTROL CONDUIT (SCC)
		IRRIGATION CROSSOVER
		EXTEND IRRIGATION CROSSOVER
		IRRIGATION SLEEVE
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (LATERAL)
		PLASTIC PIPE (IRRIGATION LINE)
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		MANUAL CONTROL VALVE (MCV)
		VALVE ASSEMBLY UNIT (VAU)
		WYE STRAINER (WS)
		FILTER ASSEMBLY UNIT (FAU)
		GATE VALVE (GV)
		BALL VALVE (BV)

EXISTING	PROPOSED	ITEM DESCRIPTION
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		PRESSURE REDUCING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		NOZZLE LINE W/TURNING UNION
		IRRIGATION SYSTEM
		IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING

VALVE CODE



* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

PLANTING AND IRRIGATION SYMBOLS

NO SCALE

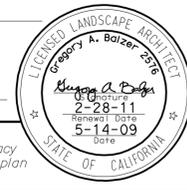
RSP H2 DATED JUNE 5, 2009 SUPERSEDES RSP H2 DATED MARCH 7, 2008 AND STANDARD PLAN H2 DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H2

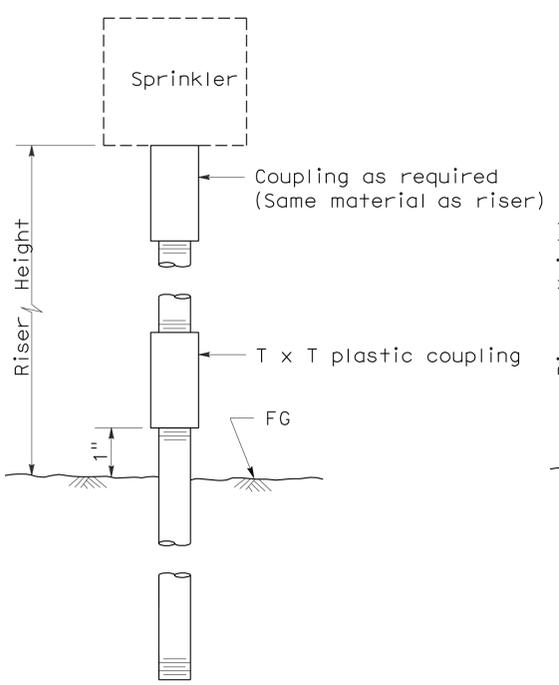
2006 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	15	50

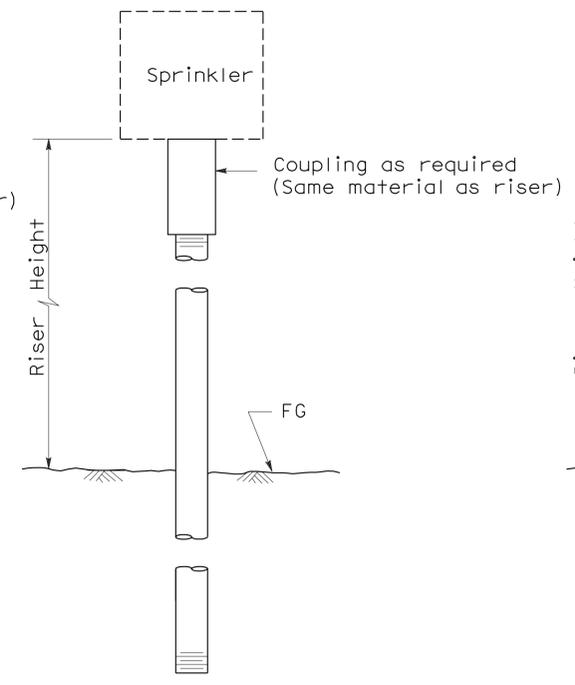
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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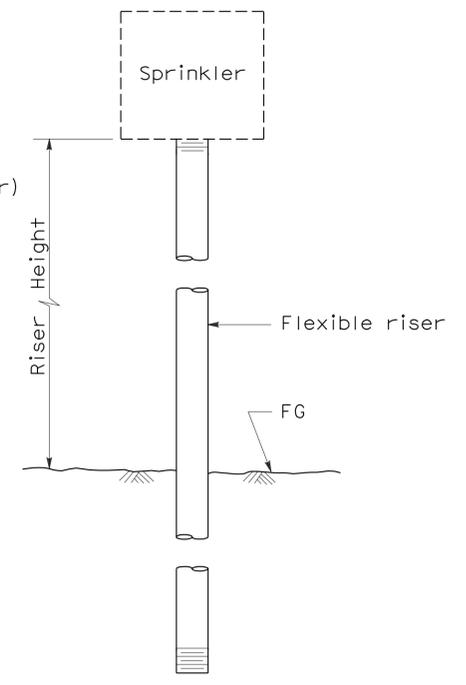
To accompany plans dated 3-21-11



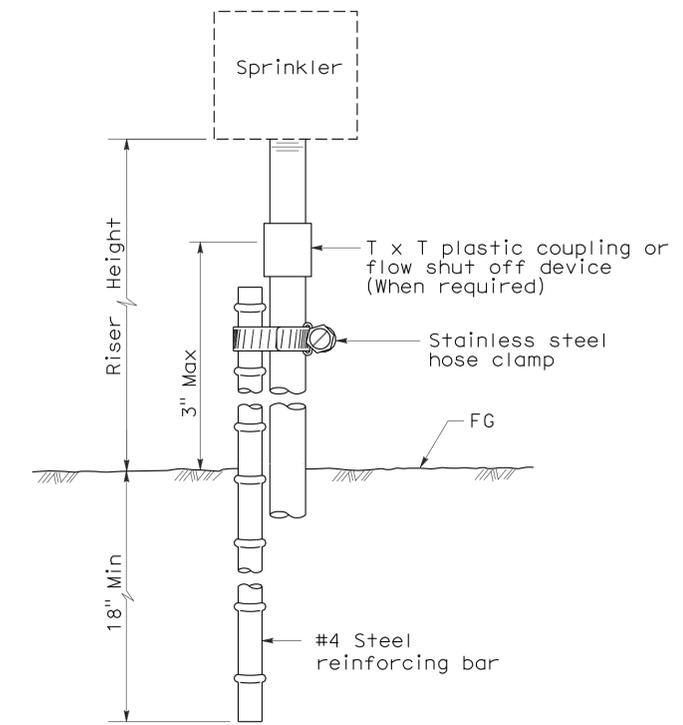
ELEVATION
RISER TYPE I



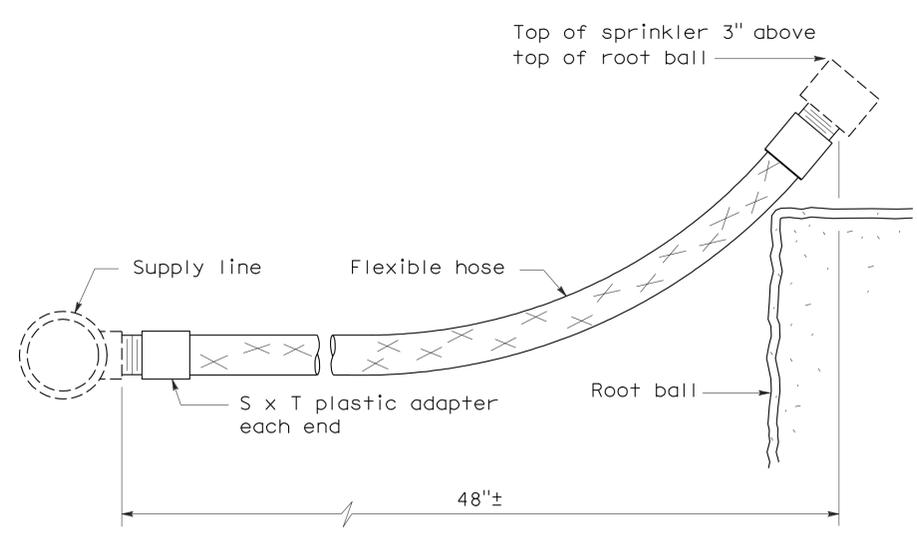
ELEVATION
RISER TYPE II



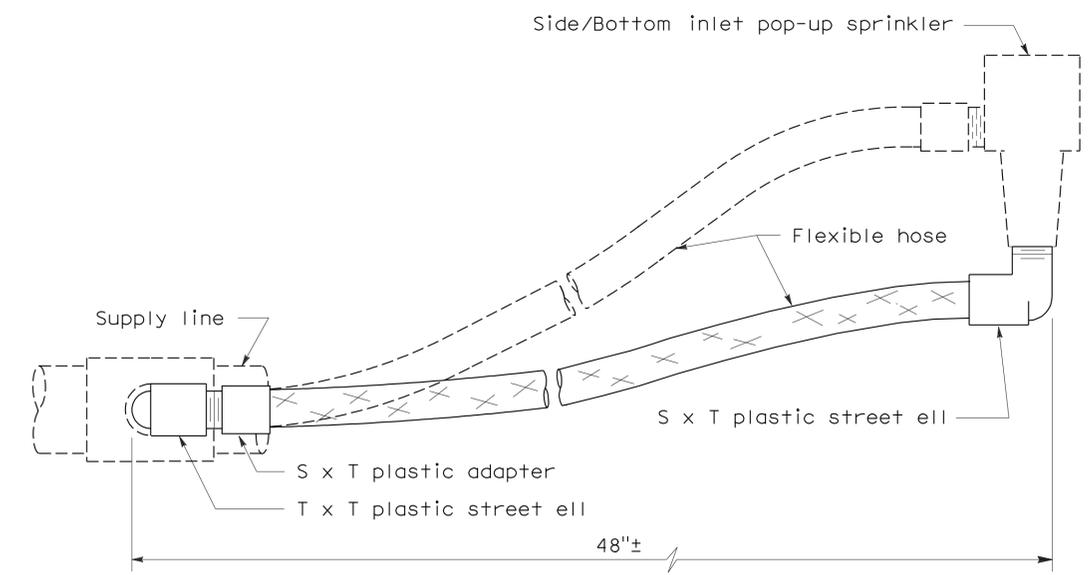
ELEVATION
RISER TYPE III



ELEVATION
RISER TYPE IV



ELEVATION
RISER TYPE V



ELEVATION
RISER TYPE VI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PLANTING AND IRRIGATION
DETAILS**
NO SCALE

RSP H5 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H5
DATED MAY 1, 2006 - PAGE 205 OF THE STANDARD PLANS BOOK DATED MAY 2006.

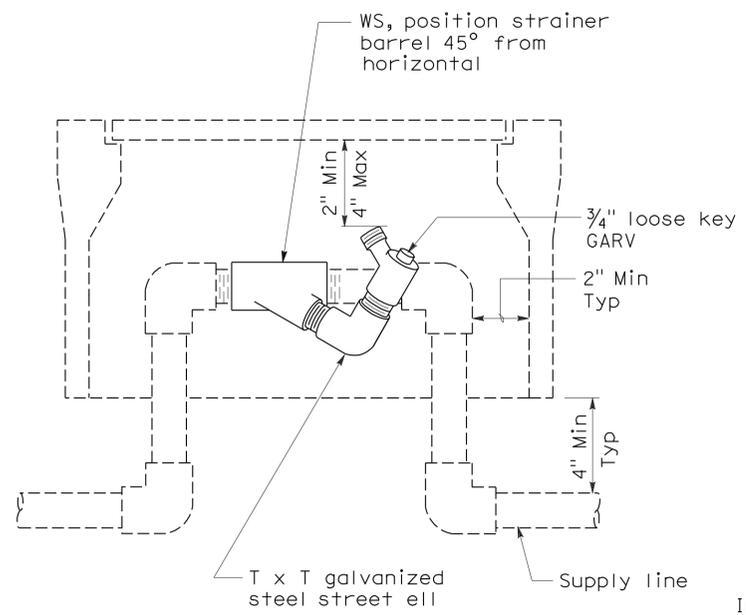
REVISED STANDARD PLAN RSP H5

2006 REVISED STANDARD PLAN RSP H5

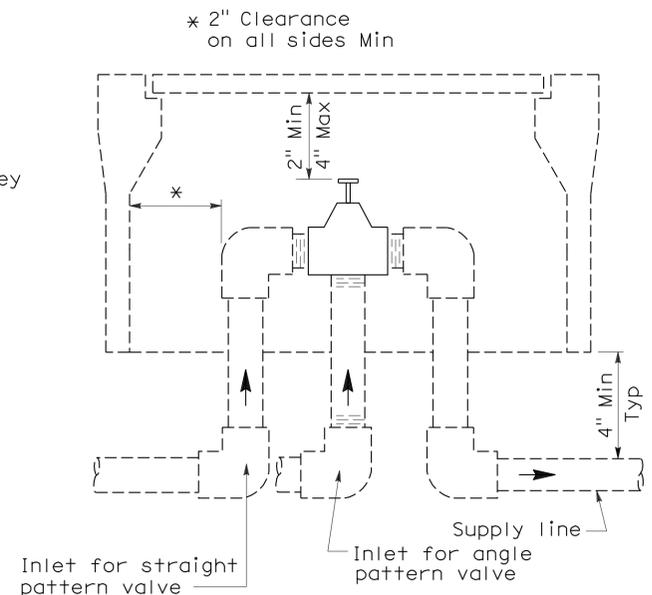
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	16	50

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 License No. 226
 Signature Date: 2-28-11
 Renewal Date: 5-14-09
 State of California

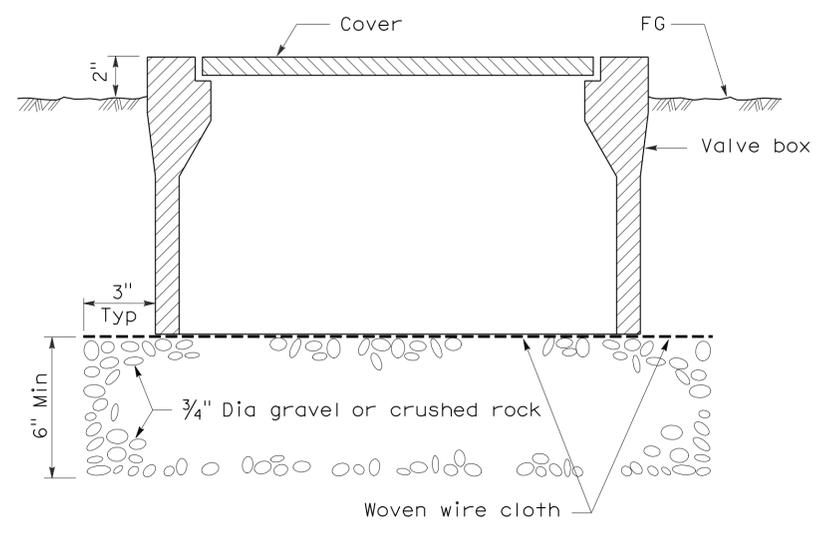
June 5, 2009
 PLANS APPROVAL DATE
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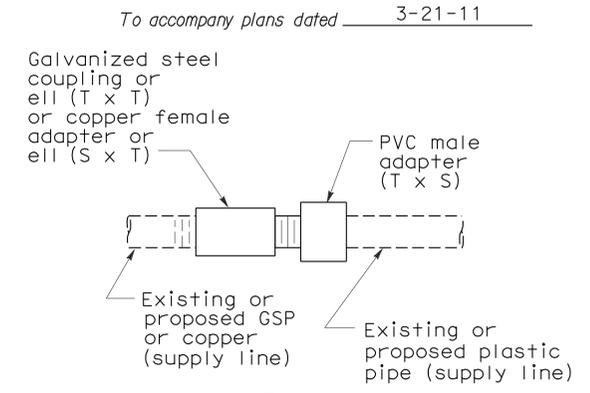
**ELEVATION
WYE STRAINER**



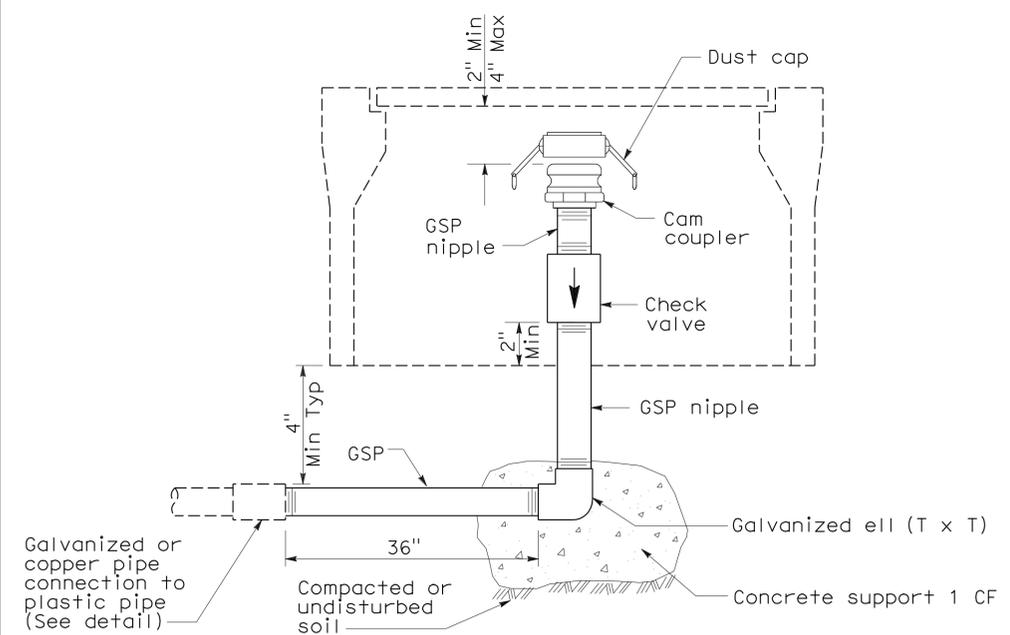
**ELEVATION
VALVE**



**SECTION
VALVE BOX**

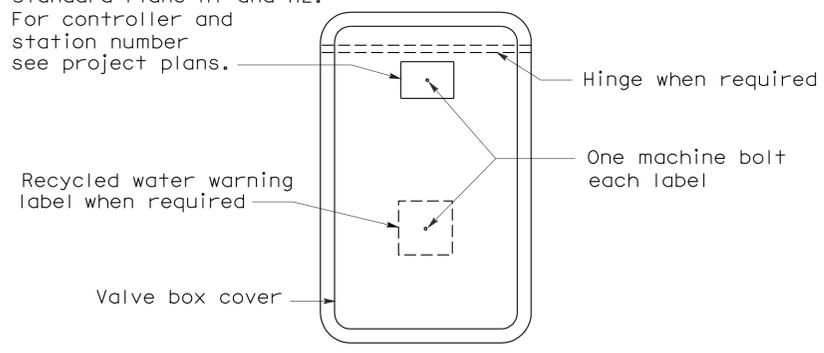


**PLAN
GALVANIZED OR COPPER PIPE
CONNECTION TO PLASTIC PIPE**

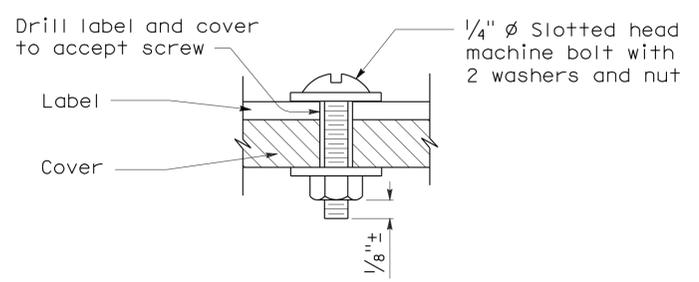


**ELEVATION
CAM COUPLER ASSEMBLY**

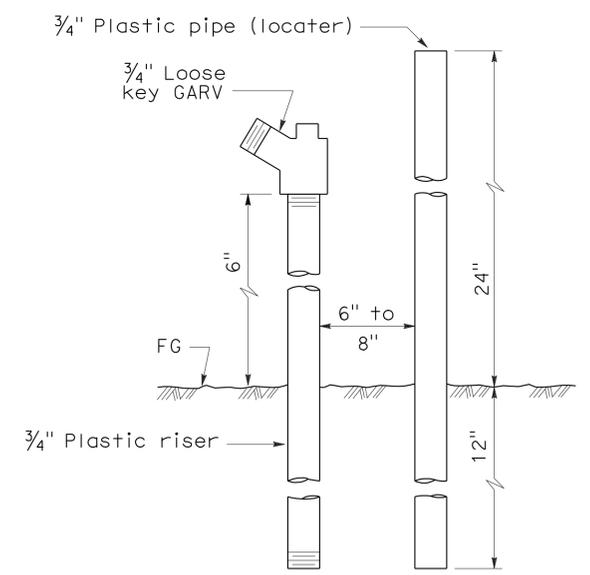
Identification label:
 For abbreviations see Revised Standard Plans H1 and H2.
 For controller and station number see project plans.



**PLAN
VALVE BOX IDENTIFICATION**



**SECTION
VALVE BOX IDENTIFICATION**



**ELEVATION
FLUSH VALVE**

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**PLANTING AND IRRIGATION
DETAILS**

NO SCALE

RSP H7 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H7
 DATED MAY 1, 2006 - PAGE 207 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H7

2006 REVISED STANDARD PLAN RSP H7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	17	50

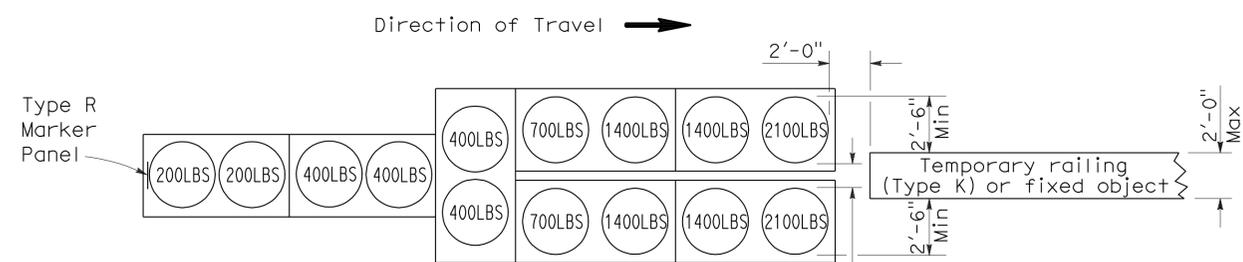
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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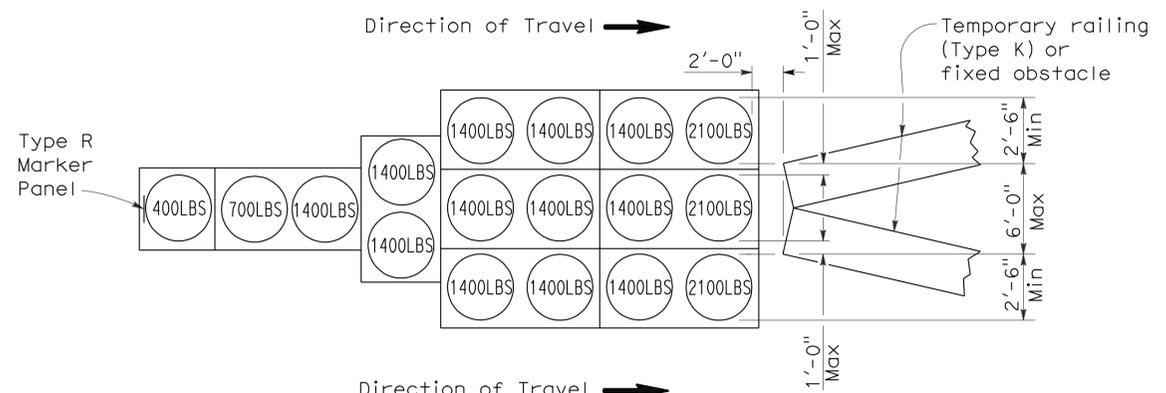
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 3-21-11



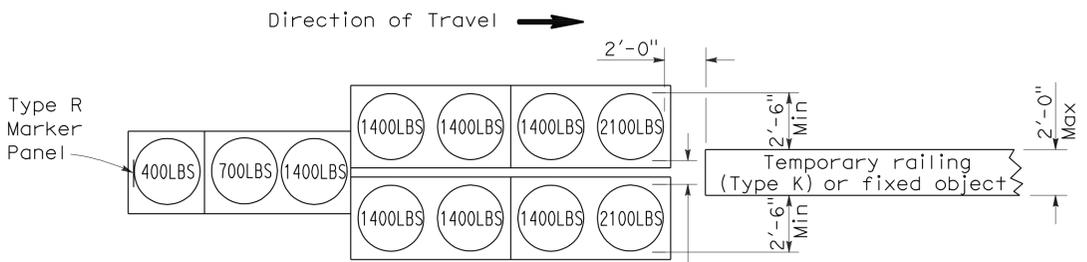
ARRAY 'TU14'

Approach speed 45 mph or more



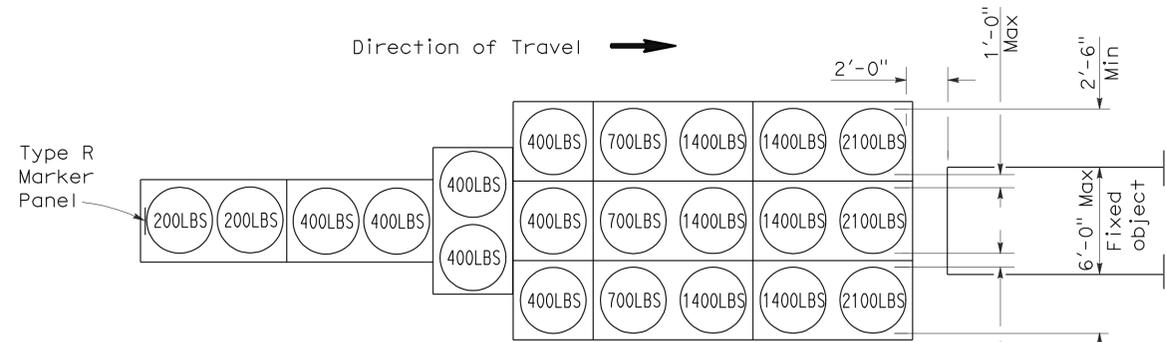
ARRAY 'TU17'

Approach speed less than 45 mph



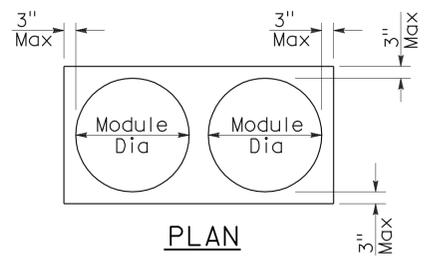
ARRAY 'TU11'

Approach speed less than 45 mph

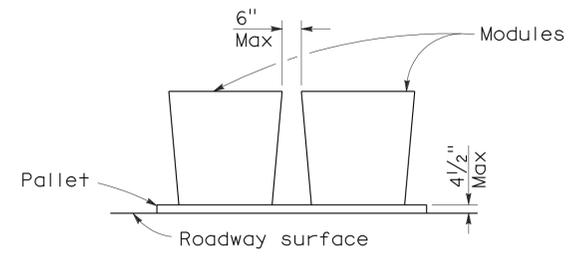


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	18	50

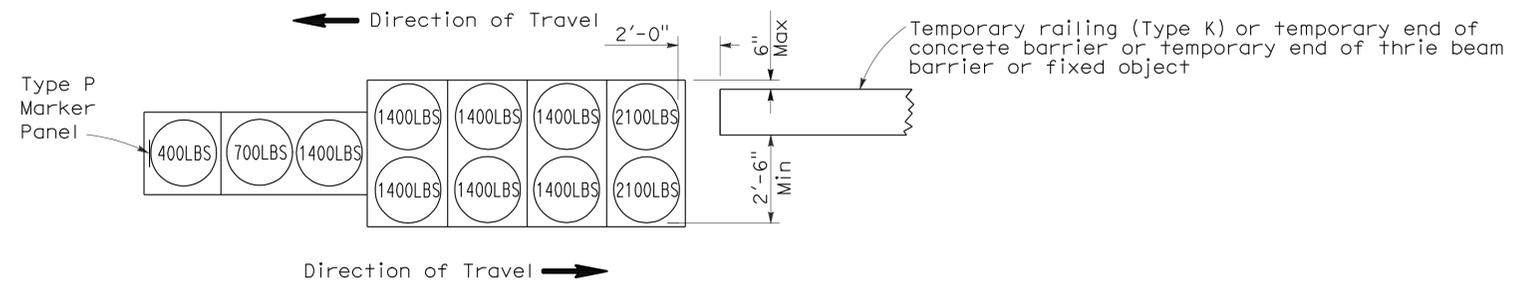
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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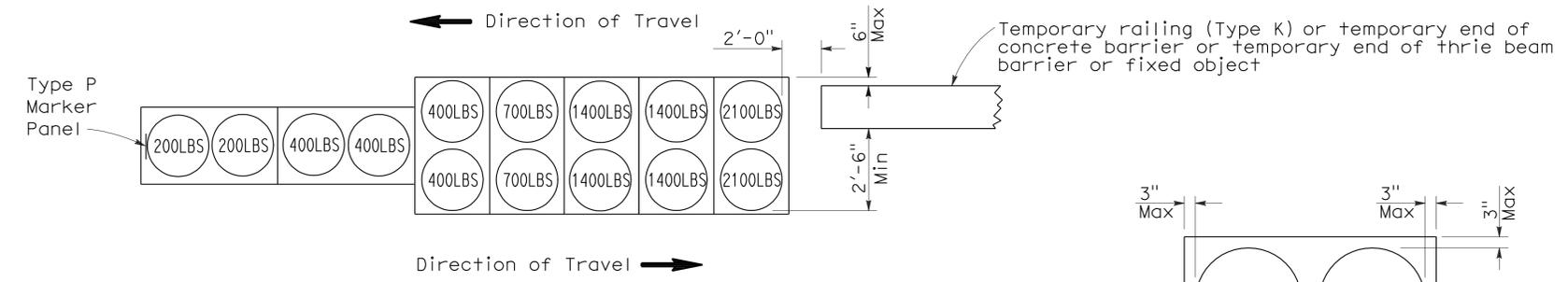
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 3-21-11



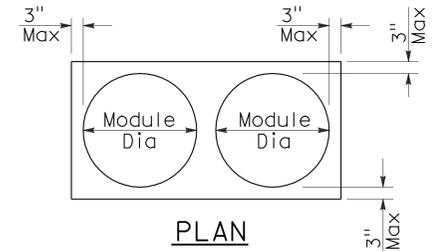
ARRAY 'TB11'

Approach speed less than 45 mph

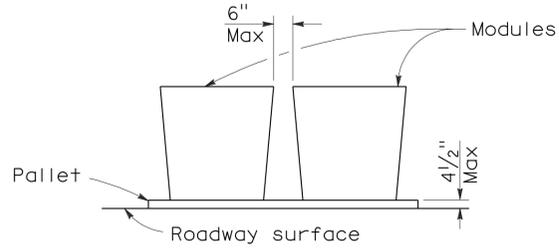


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	19	50

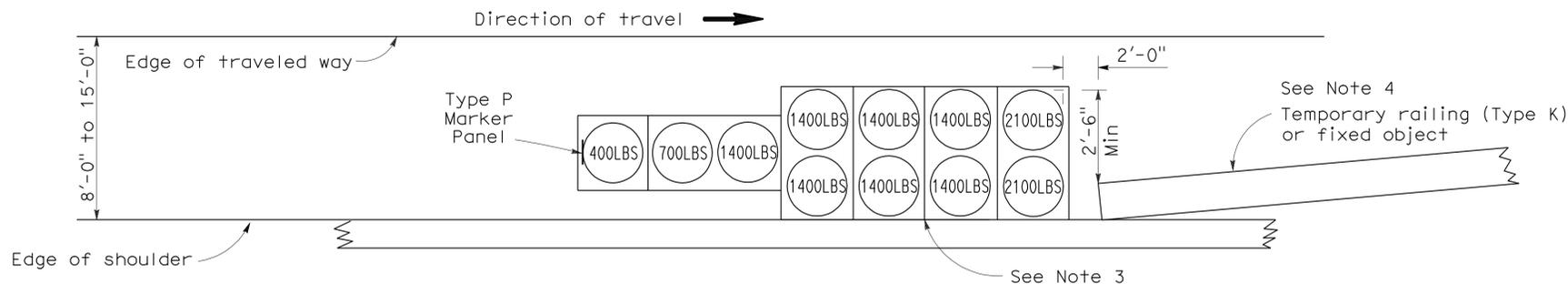
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

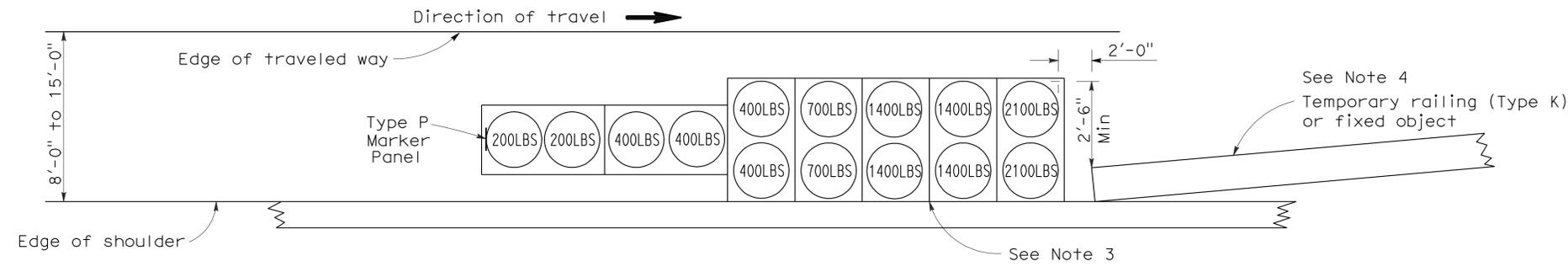
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 3-21-11



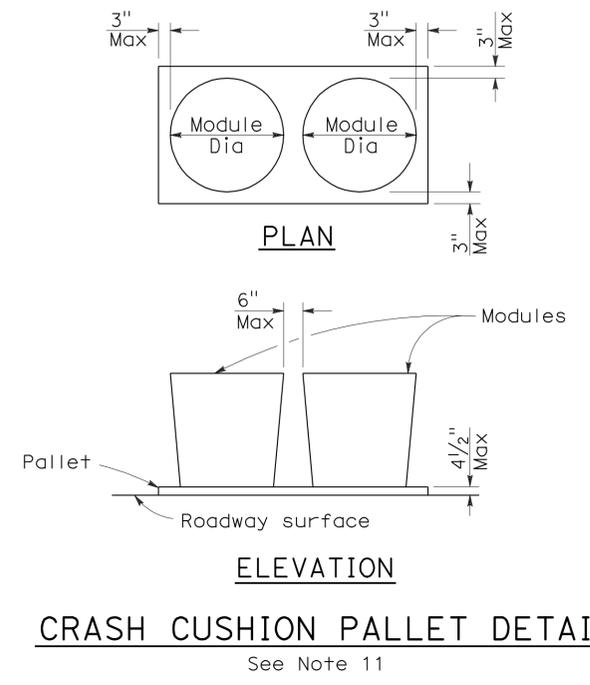
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE

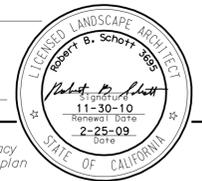
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

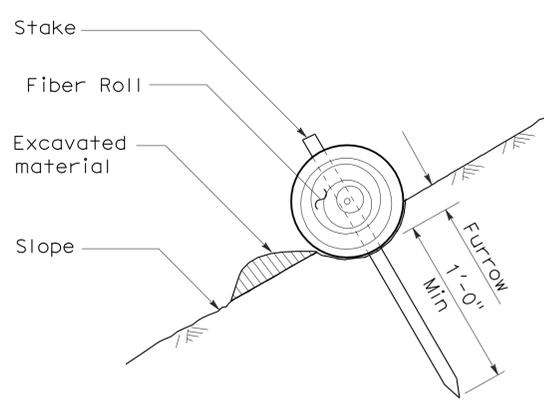
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	21	50

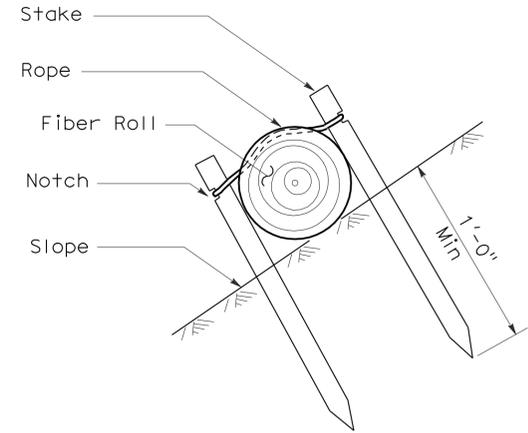
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



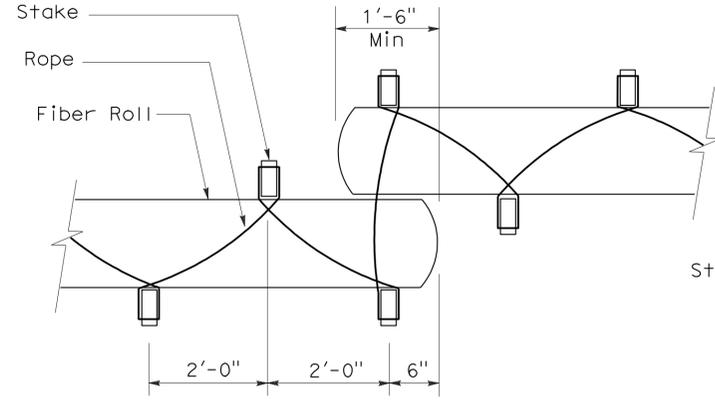
To accompany plans dated 3-21-11



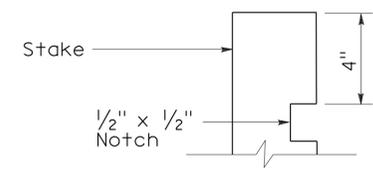
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



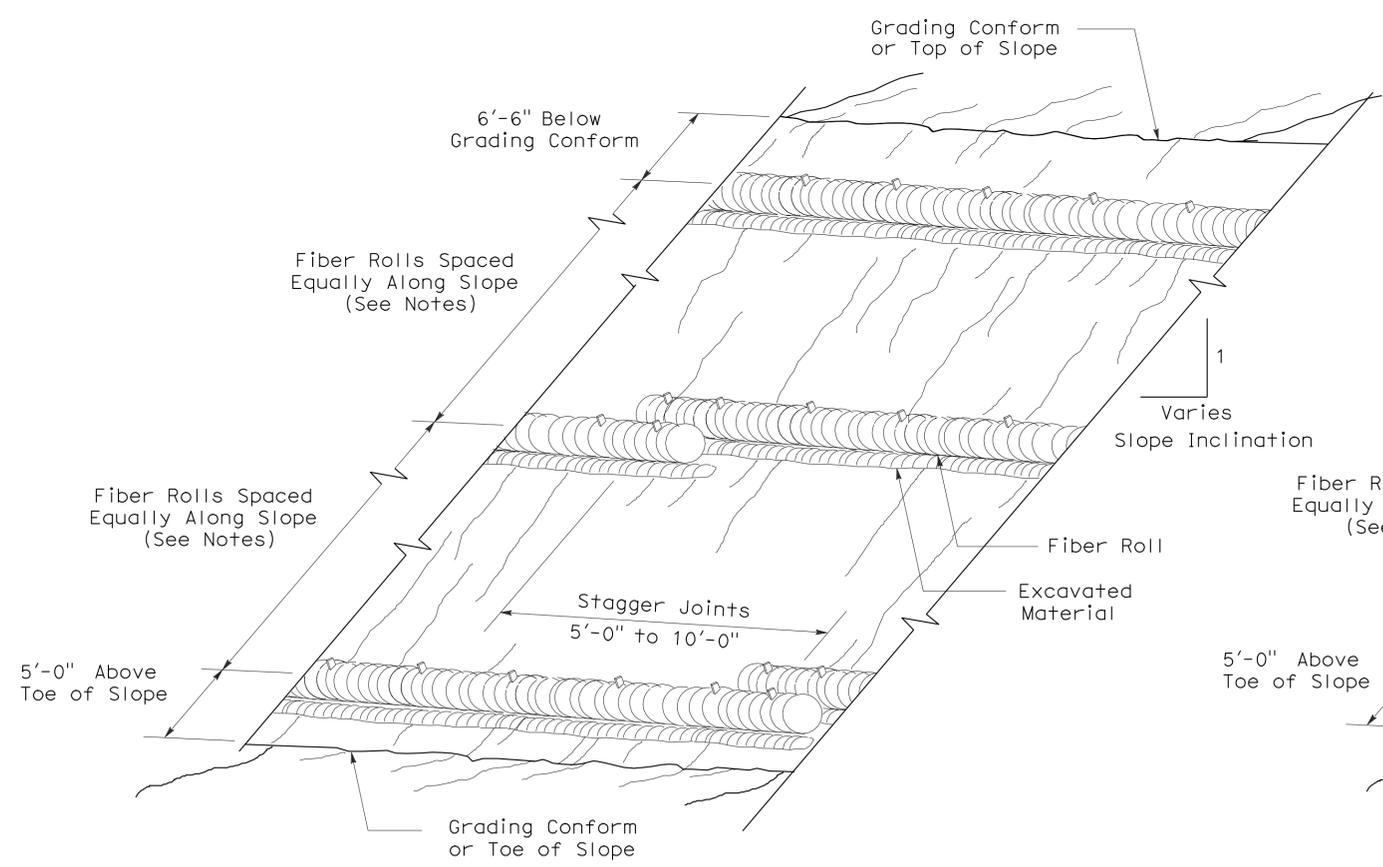
SECTION
TEMPORARY FIBER ROLL
(TYPE 2)



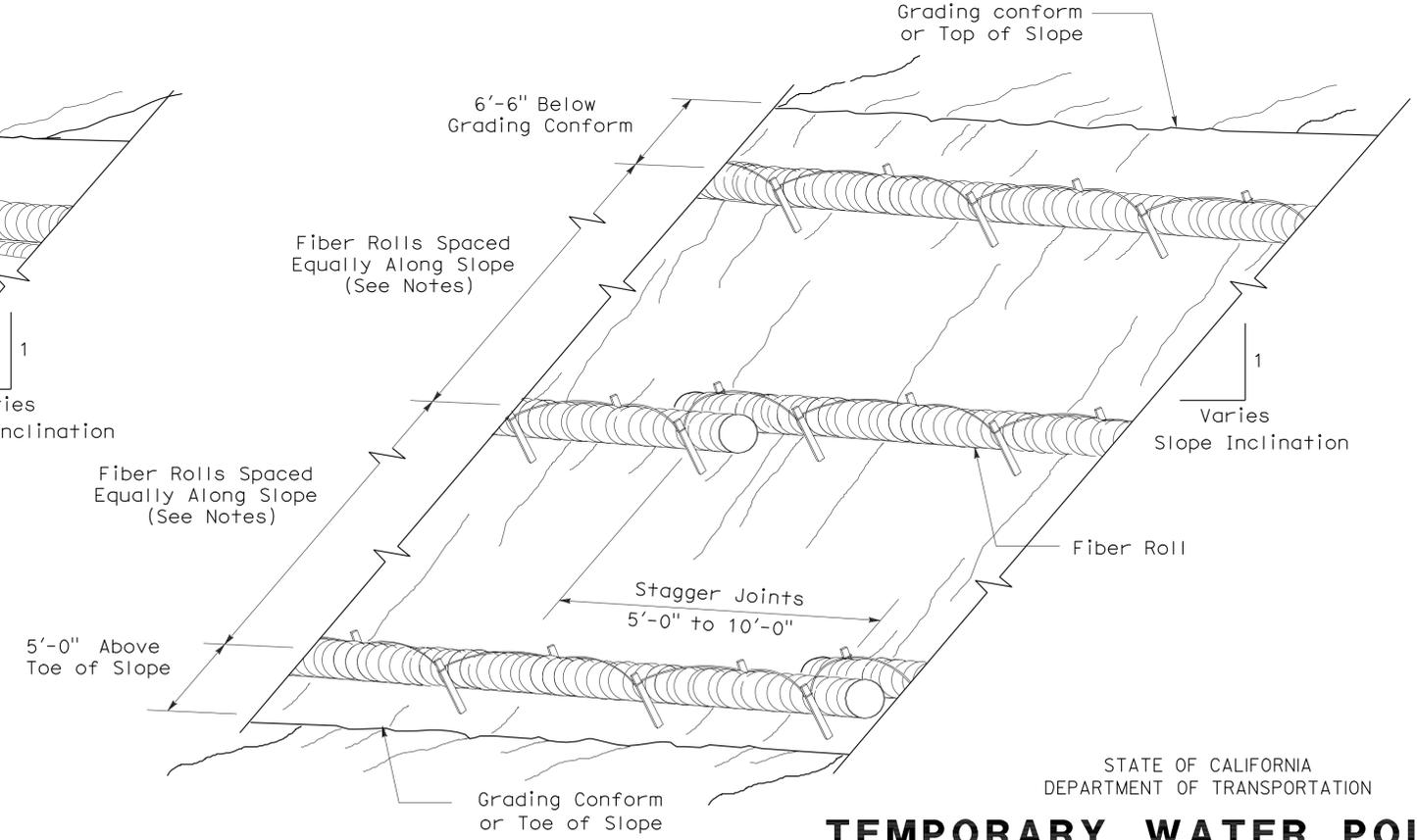
PLAN
ELEVATION
STAKE NOTCH DETAIL



- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
 2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

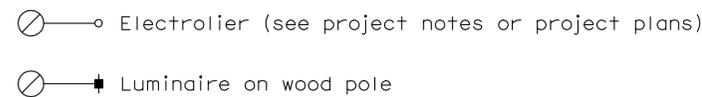
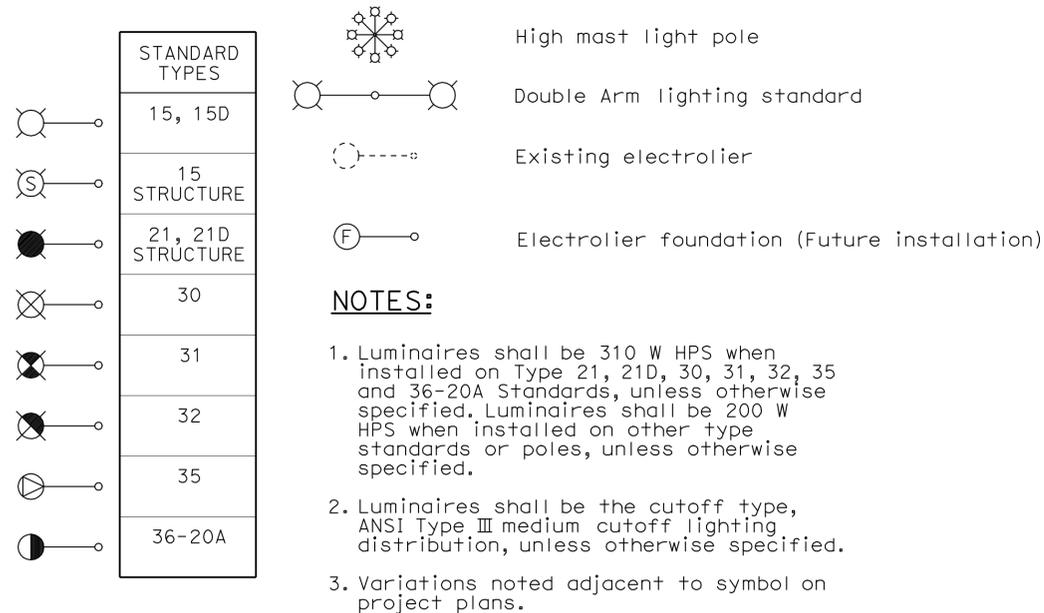
NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	22	50

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

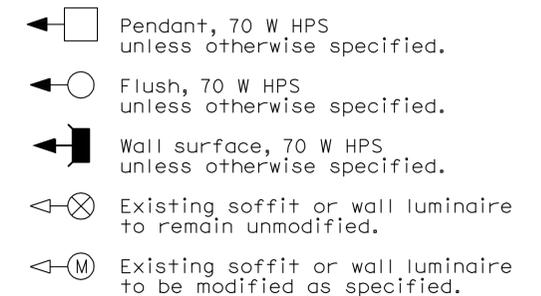
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 3-21-11

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	23	50

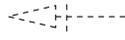
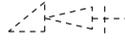
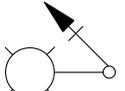
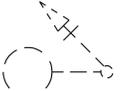
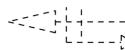
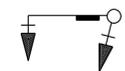
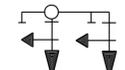
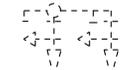
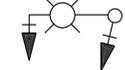
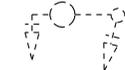
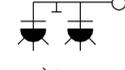
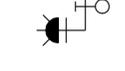
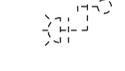
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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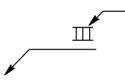
CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

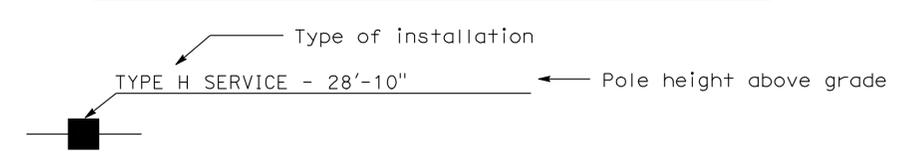
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH	---oh	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

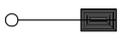
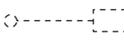
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

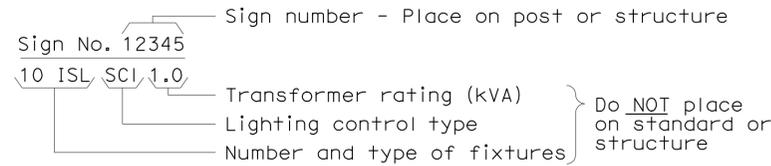
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

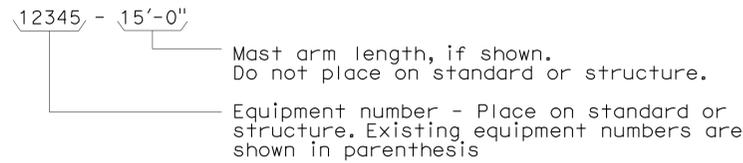
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

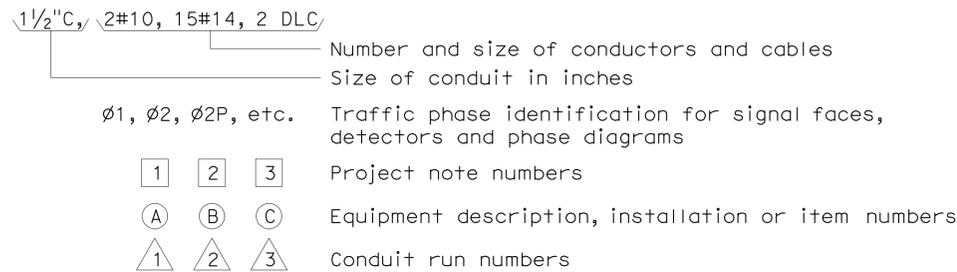
ILLUMINATED SIGN IDENTIFICATION NUMBER:



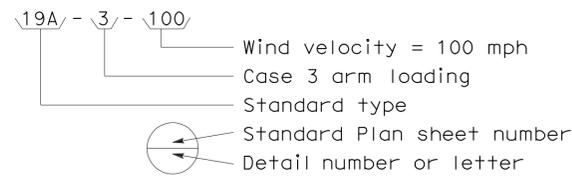
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



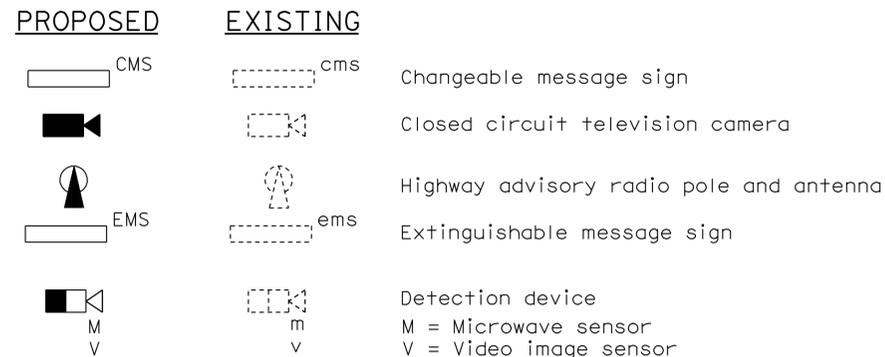
CONDUIT AND CONDUCTOR IDENTIFICATION:



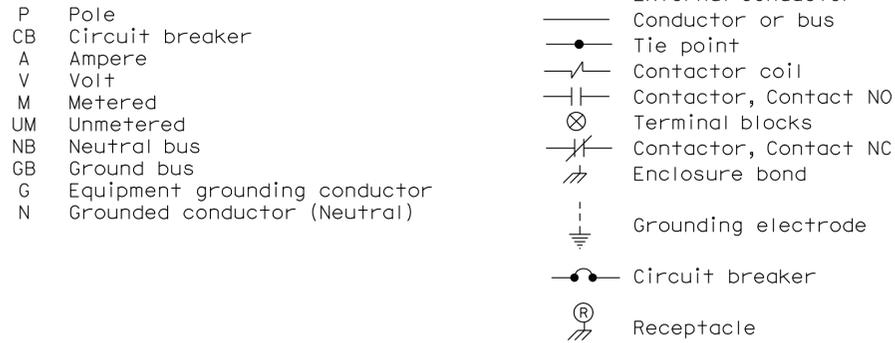
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



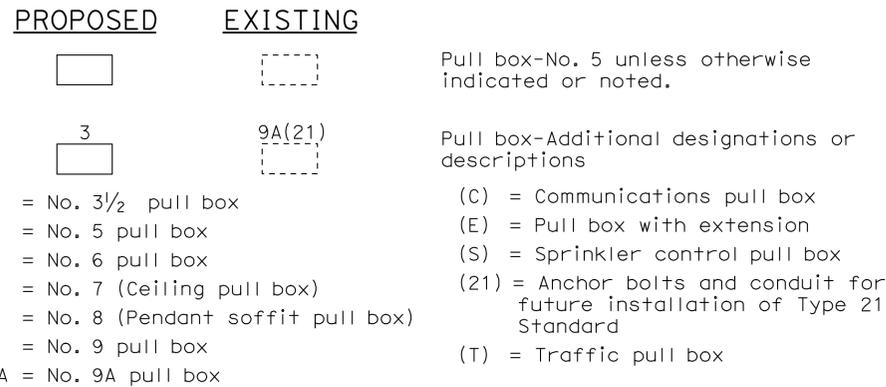
MISCELLANEOUS EQUIPMENT



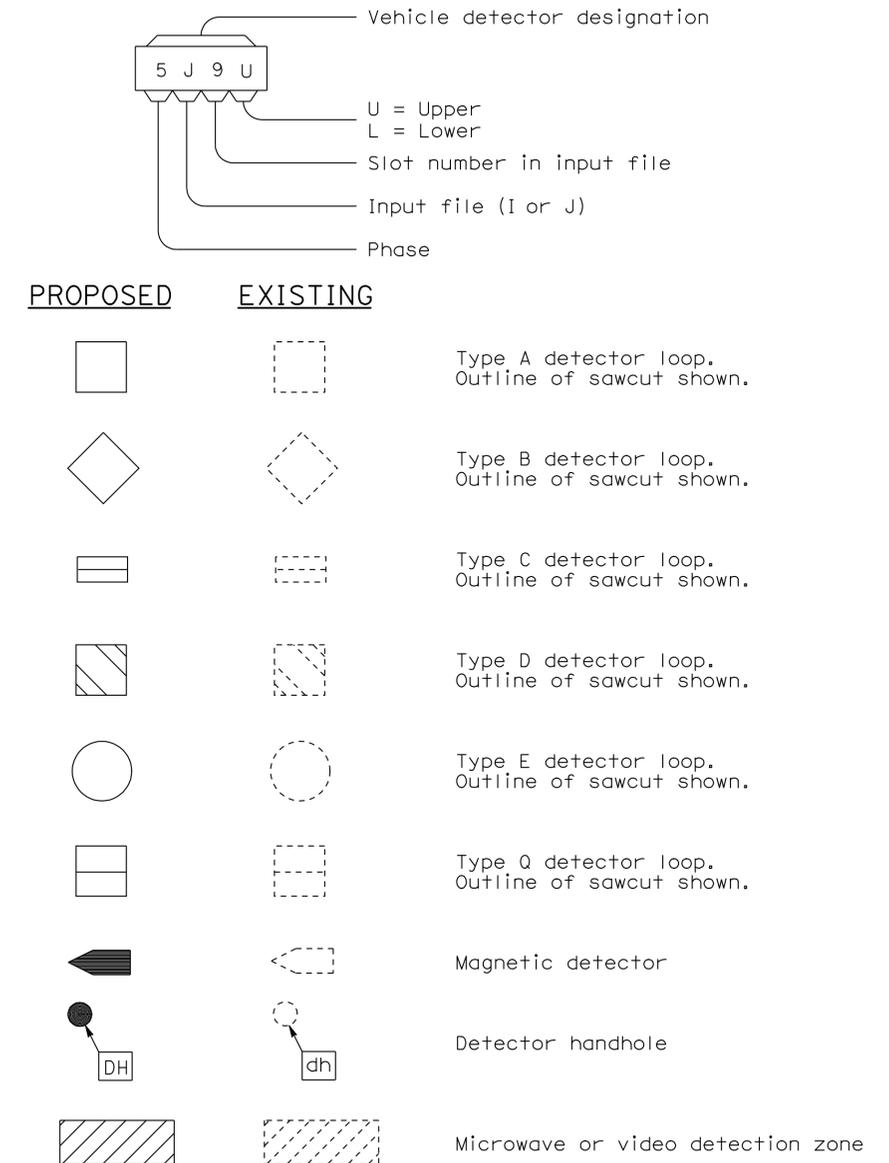
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	25	50

<i>Jerome R. Marcotte</i>	09-27-10
REGISTERED CIVIL ENGINEER	DATE

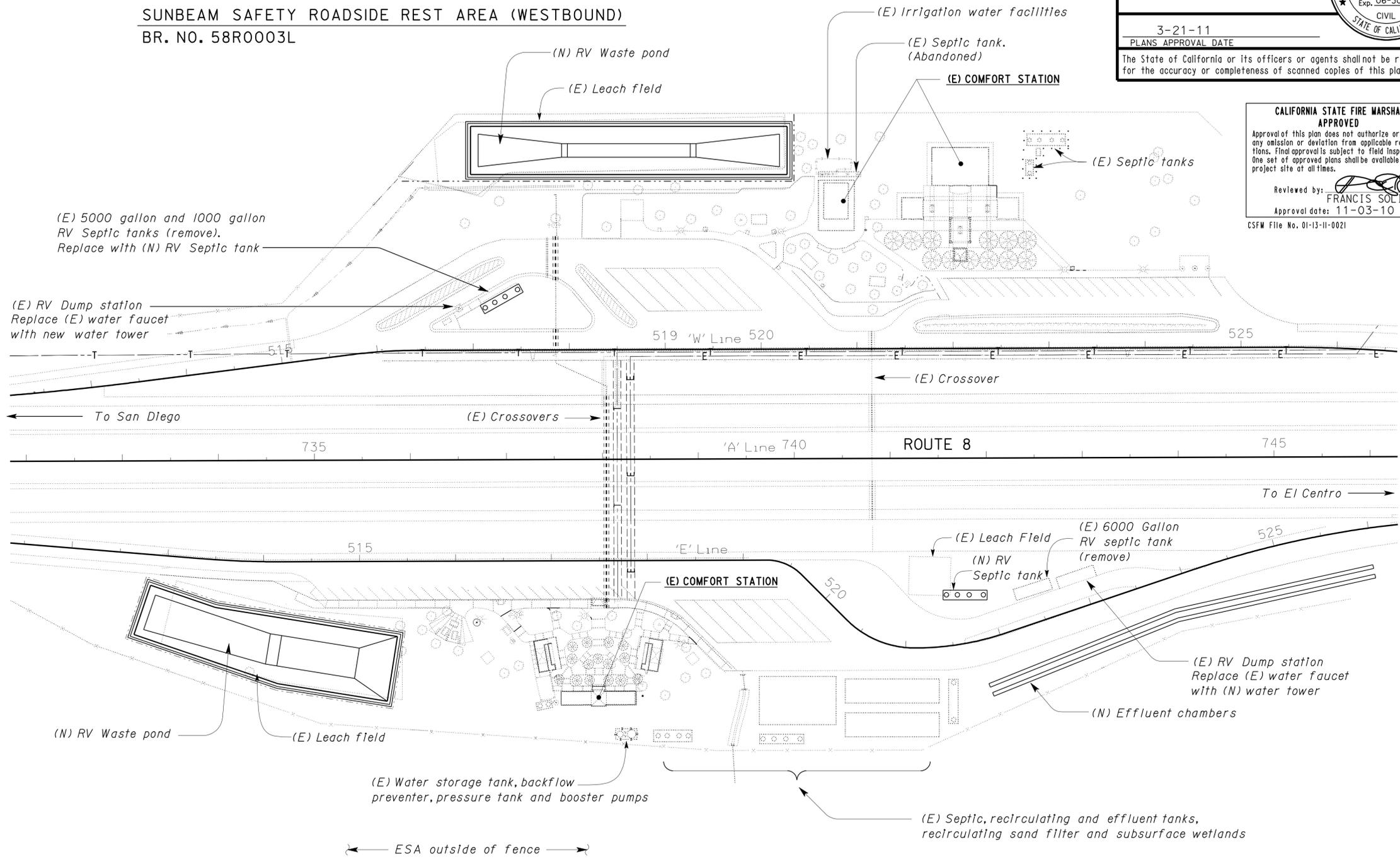
3-21-11
PLANS APPROVAL DATE

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
GP	GENERAL PLAN
SANITARY	
SS0-0	LEGEND AND ABBREVIATIONS
SS0-1	EXISTING SITE PLAN
SSI-1	EASTBOUND MODIFIED SITE PLAN
SSI-2	EASTBOUND RV SEPTIC TANK
SSI-3	EASTBOUND RV WASTE POND
SS2-1	WESTBOUND MODIFIED SITE PLAN
SS2-2	WESTBOUND RV SEPTIC TANK
SS2-3	WESTBOUND RV WASTE POND
SS3-1	DETAILS 1
SS3-2	DETAILS 2
SS3-3	DETAILS 3
ELECTRICAL	
EI1-1	EASTBOUND ELECTRICAL SITE PLAN
EI1-2	EASTBOUND ENLARGED PARTIAL SITE PLAN AND RV SEPTIC TANK DETAILS
EI1-3	EASTBOUND RV SEPTIC TANK CONTROL PANEL DETAILS
EI1-4	EASTBOUND ENLARGED PARTIAL SITE PLAN AND RV POND CONTROL PANEL DETAILS
EI1-5	EASTBOUND EXISTING PANEL E DETAILS
EE2-1	WESTBOUND ELECTRICAL SITE PLAN
EE2-2	WESTBOUND ENLARGED PARTIAL SITE PLAN AND RV SEPTIC TANK CONTROL PANEL DETAILS
EE2-3	WESTBOUND RV SEPTIC TANK DETAILS
EE2-4	WESTBOUND ENLARGED PARTIAL SITE PLAN AND RV POND CONTROL PANEL DETAILS
EE2-5	WESTBOUND PANEL W DETAILS
BORING LOGS (FOR INFORMATION ONLY)	
	LOG OF TEST BORINGS 1 OF 2
	LOG OF TEST BORINGS 2 OF 2



CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-03-10
CSFM File No. 01-13-11-0021

SUNBEAM SAFETY ROADSIDE REST AREA (EASTBOUND)
BR. NO. 58R0003R

SITE PLAN
SCALE 1" = 60'-0"

Paul Schreff
DESIGN SUPERVISOR
Jerome R. Marcotte
DESIGN ENGINEER

DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte
DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte
QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R/L
POST MILE

SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS
GENERAL PLAN

SHEET GP

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	26	50

ABBREVIATIONS

LEGEND

AB	AGGREGATE BASE	IE	INVERT ELEVATION (IN FEET)
AC	ASPHALT CONCRETE	IN	INCH
B	BUNG	JB	JUNCTION BOX
BLDG	BUILDING	KW	KILOWATT
C	CONDUIT	LB	POUND
C-C	CENTER TO CENTER	LT	LEFT
CFS	CUBIC FEET PER SECOND	MAX	MAXIMUM
CI	CAST IRON	MBV	MOTORIZED BALL VALVE
CL	CHAIN LINK	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CONC	CONCRETE	(N)	NEW
COTF	CLEANOUT TO FLOOR	N	NORTH
COTG	CLEANOUT TO GRADE	NB	NORTHBOUND
CPLG	COUPLING	NIC	NOT IN CONTRACT
CW	COLD WATER PIPE	NO	NUMBER
D	DRAIN	OC	ON CENTER
DBH	DIAMETER AT BREAST HEIGHT	OD	OUTSIDE DIAMETER
DI	DRAIN INLET	OG	ORIGINAL GROUND
DIA	DIAMETER	P	PITCH
DP	DRAIN PIPE	PCC	PORTLAND CEMENT CONCRETE
E	ELECTRICAL	PH	PHASE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EA	EACH	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
EQ	EQUAL	REQ	REQUIRED
ESA	ENVIRONMENTALLY SENSITIVE AREA	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FOB	FACE OF BUILDING	RPU	RECYCLE PROCESS UNIT
FF	FINISH FLOOR	RSF	RECIRCULATING SAND FILTER
FG	FINISH GRADE	RT	RIGHT
FL	FLOW LINE	RV	RECREATIONAL VEHICLE
FM	FORCE MAIN	R/W	RIGHT-OF-WAY
FOC	FACE OF CONCRETE	S	SLOPE
FS	FLOW SWITCH	SB	SOUTHBOUND
FT	FEET	SCH	SCHEDULE
FTR	FLUE THROUGH ROOF	SD	STORM DRAIN
GA	GAUGE	SP	SEWER PIPE
GAC	GRANULAR ACTIVATED CARBON	SQ	SQUARE
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
H	HEIGHT	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	VAC	VOLTS AC
HP	HOSE FAUCET	VCP	VITRIFIED CLAY PIPE
HF	HORSEPOWER	W	WATER
HZ	HERTZ	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WATER PIPE

— A —	AIR
— C —	ELECTRICAL CONDUIT
— D —	DRAIN
— FM —	FORCE MAIN
— G —	GAS
— OD —	OVERFLOW DRAIN PIPE
— PW —	PRESSURE WASHER PIPE
— RD —	RETURN DRAIN
— RW —	WATER (NON POTABLE)
— S —	SANITARY SEWER
— T —	TELEPHONE
— V —	VENT
— W —	WATER (POTABLE)
— LS —	LANDSCAPE IRRIGATION WATER
— X —	FENCE

	DETAIL SHEET NUMBER
99.00	NEW GRADE IN FEET
X (100.00)	EXISTING SPOT GRADE IN FEET
	SURFACE DRAINAGE
	ABANDON
	BENCHMARK ELEVATION
	CENTERLINE
	DIAMETER
	SECTION / ELEVATION LETTER SHEET NUMBER
	TREE
	DIRECTION OF TRAFFIC

PIPE FITTINGS AND VALVES

	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

GENERAL WORK NOTES

- The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.
- No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends.
- All building work shall comply with the following codes:
 2007 California Fire Code
 2007 California Mechanical Code
 2007 California Plumbing Code
 2007 California Electrical Code

Jerry R. Schmitz 09-27-10
 REGISTERED CIVIL ENGINEER DATE

3-21-11
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 11-03-10

CSFM File No. 01-13-11-0021

DESIGN	BY	R E Schmitz	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003R/L	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET	OF	
	DETAILS	BY	R E Schmitz	CHECKED			Jerry Marcotte	POST MILE			SS-0	
	QUANTITIES	BY	R E Schmitz	CHECKED			Jerry Marcotte				LEGEND AND ABBREVIATIONS	
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT PROJECT NUMBER & PHASE	3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	01-01-09 01-27-09 02-25-09 03-23-09 04-30-10 09-27-10	SHEET OF	

23-MAR-2011 08:53

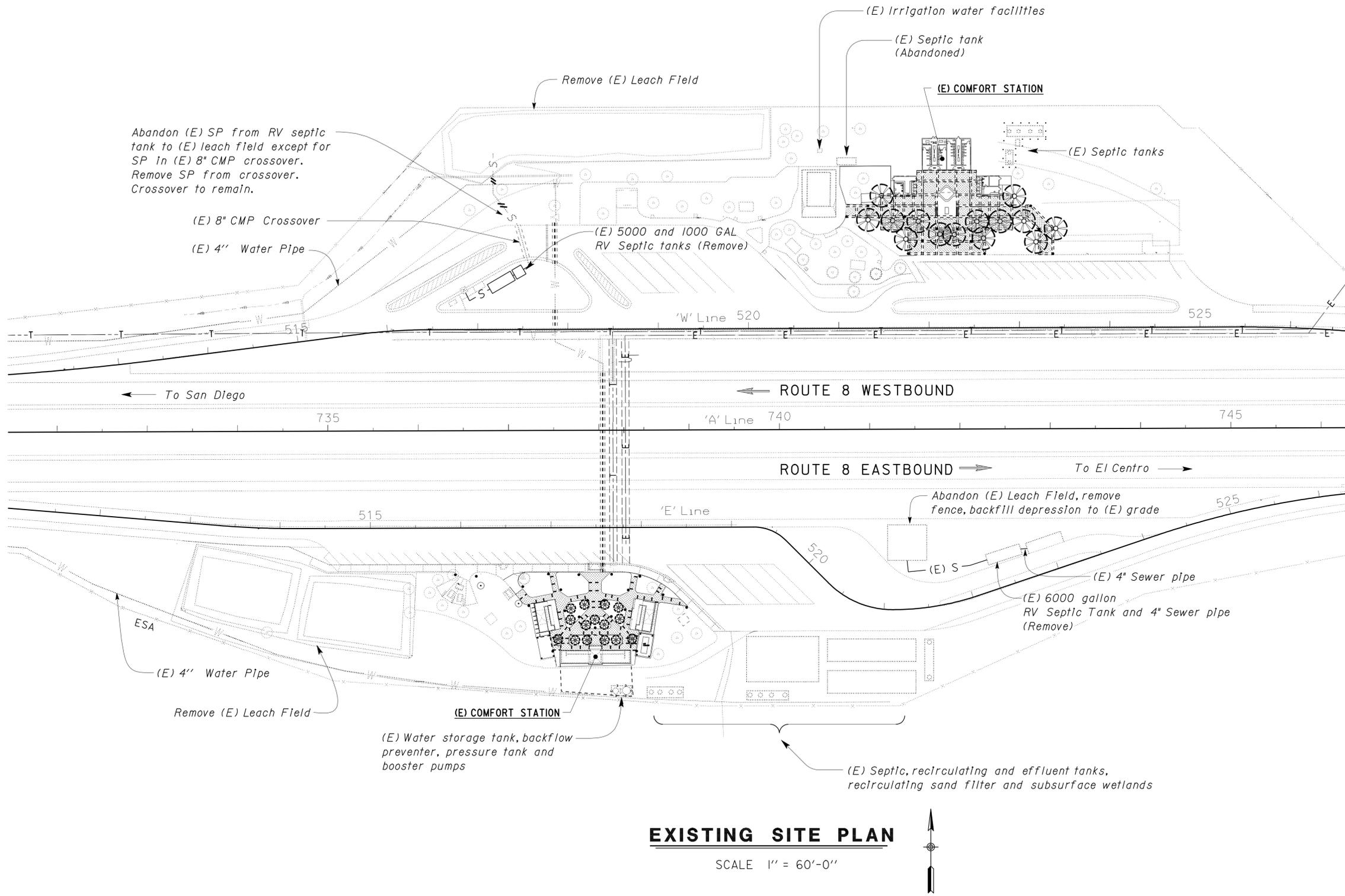
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	27	50
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			09-27-10 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C 36844 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA	
3-21-11 PLANS APPROVAL DATE					
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FRANCIS SOLICH
 Approval date: 11-03-10

CSFM File No. 01-13-11-0021



Abandon (E) SP from RV septic tank to (E) leach field except for SP in (E) 8" CMP crossover. Remove SP from crossover. Crossover to remain.

(E) 8" CMP Crossover
 (E) 4" Water Pipe

(E) 5000 and 1000 GAL RV Septic tanks (Remove)

(E) Irrigation water facilities
 (E) Septic tank (Abandoned)

(E) COMFORT STATION

(E) Septic tanks

Abandon (E) Leach Field, remove fence, backfill depression to (E) grade

(E) 4" Sewer pipe
 (E) 6000 gallon RV Septic Tank and 4" Sewer pipe (Remove)

(E) 4" Water Pipe

Remove (E) Leach Field

(E) Water storage tank, backflow preventer, pressure tank and booster pumps

(E) Septic, recirculating and effluent tanks, recirculating sand filter and subsurface wetlands

EXISTING SITE PLAN

SCALE 1" = 60'-0"

DESIGN	BY	R E Schmitz	CHECKED	Jerry Marcotte
DETAILS	BY	R E Schmitz	CHECKED	Jerry Marcotte
QUANTITIES	BY	R E Schmitz	CHECKED	Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.
 58R0003R/L
 POST MILE

**SUNBEAM SAFETY ROADSIDE REST AREA
 RV WASTE PONDS**
 EXISTING SITE PLAN

SHEET
SS0-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3616 11000002121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
01-01-09	01-27-09	02-25-09	03-23-09	08-30-10	09-27-10

SHEET OF
 ss0_01.dgn

23-MAR-2011 09:04

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	28	50

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	09-27-10 DATE
--	------------------

3-21-11
PLANS APPROVAL DATE

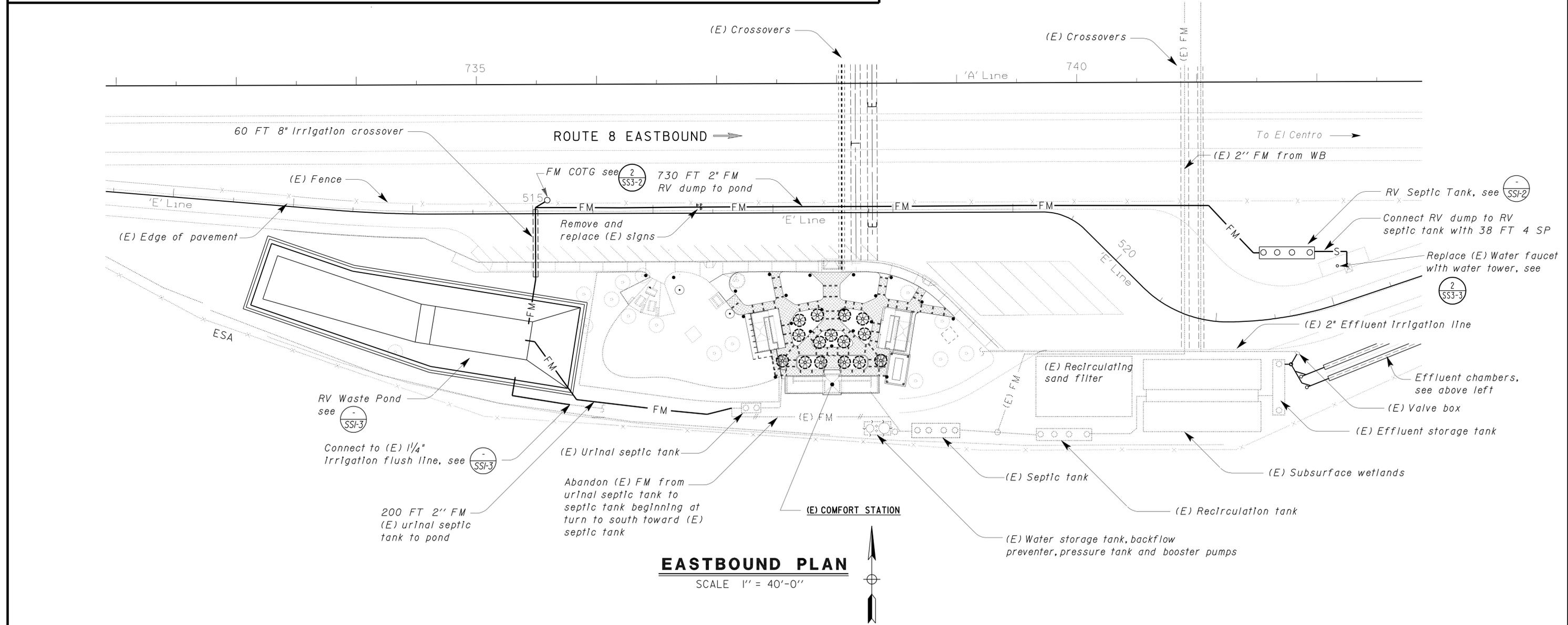
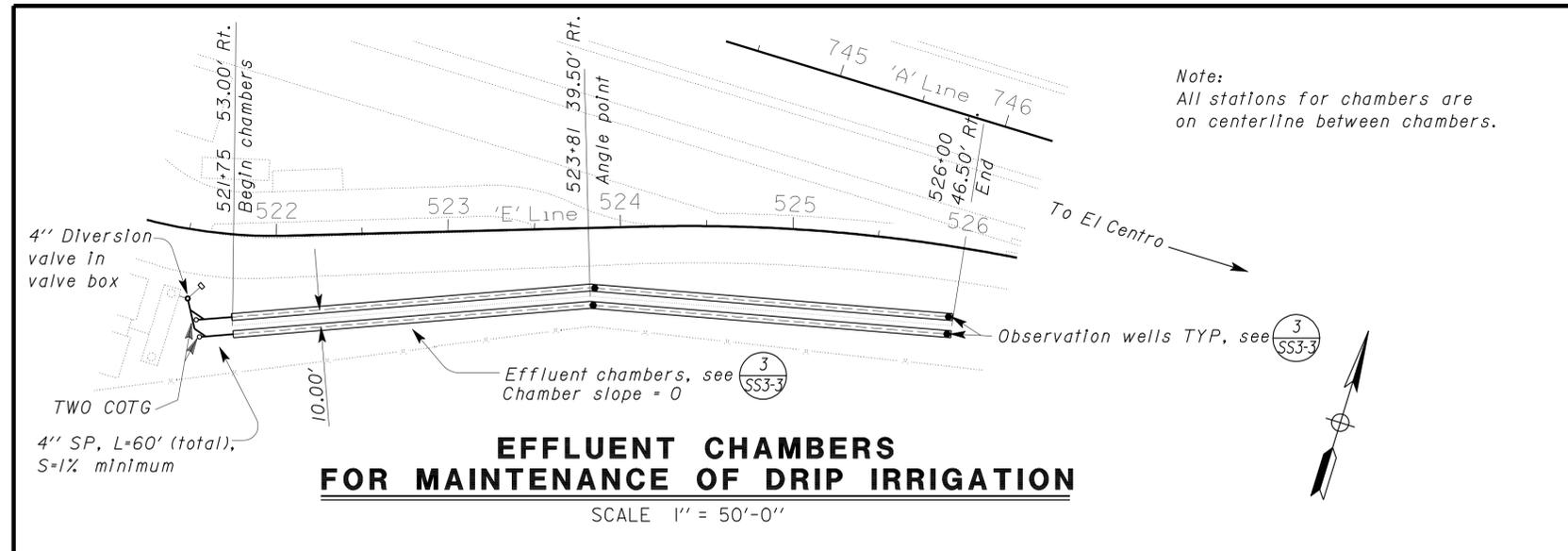
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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-03-10
CSFM File No. 01-13-11-0021



DESIGN BY <i>R E Schmitz</i>	CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET			
	DETAILS BY <i>R E Schmitz</i>			CHECKED <i>Jerry Marcotte</i>		POST MILE	EASTBOUND	MODIFIED SITE PLAN	SS1-1
	QUANTITIES BY <i>R E Schmitz</i>			CHECKED <i>Jerry Marcotte</i>		UNIT PROJECT NUMBER & PHASE 3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

EA 261521

01-01-09 01-27-09 02-25-09 03-23-09 08-30-10 09-27-10

23-MAR-2011 13:22

ss1_01.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	29	50

Jerome R. Yantis 09-27-10
 REGISTERED CIVIL ENGINEER DATE

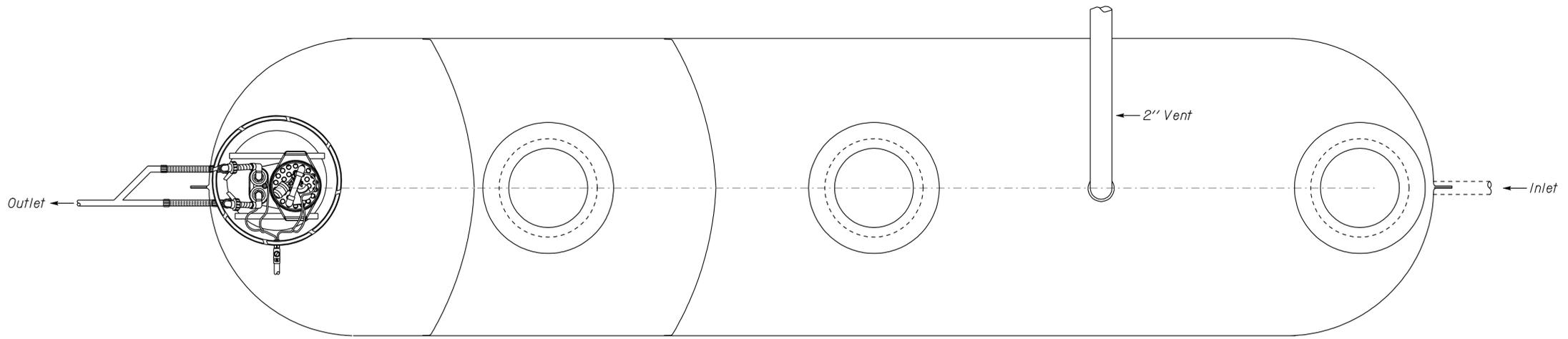
REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C 36844
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA

3-21-11
 PLANS APPROVAL DATE

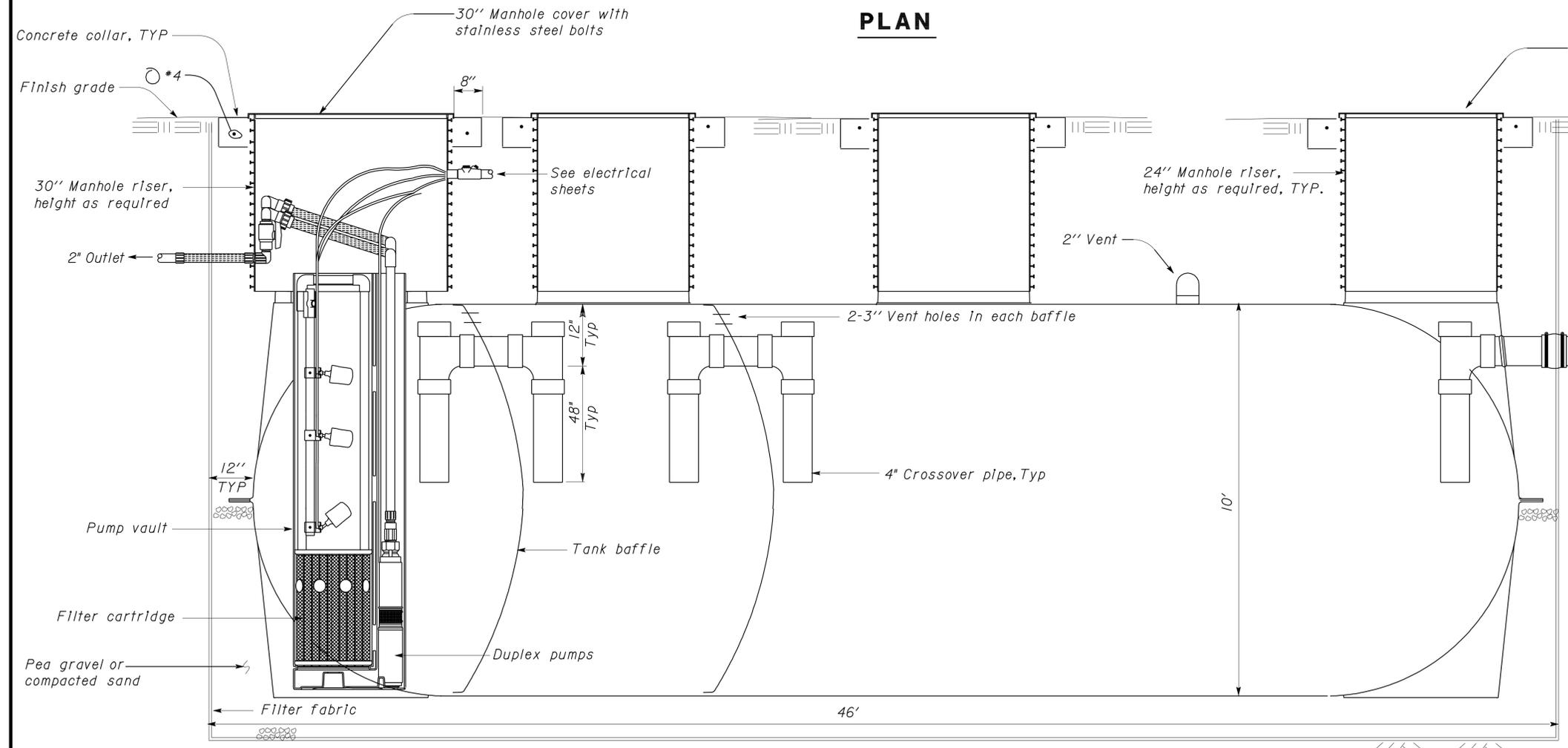
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Reviewed by: *Francis Solich*
FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021



PLAN



SECTION

1 SEPTIC TANK - 15,000 GALLON
 No Scale

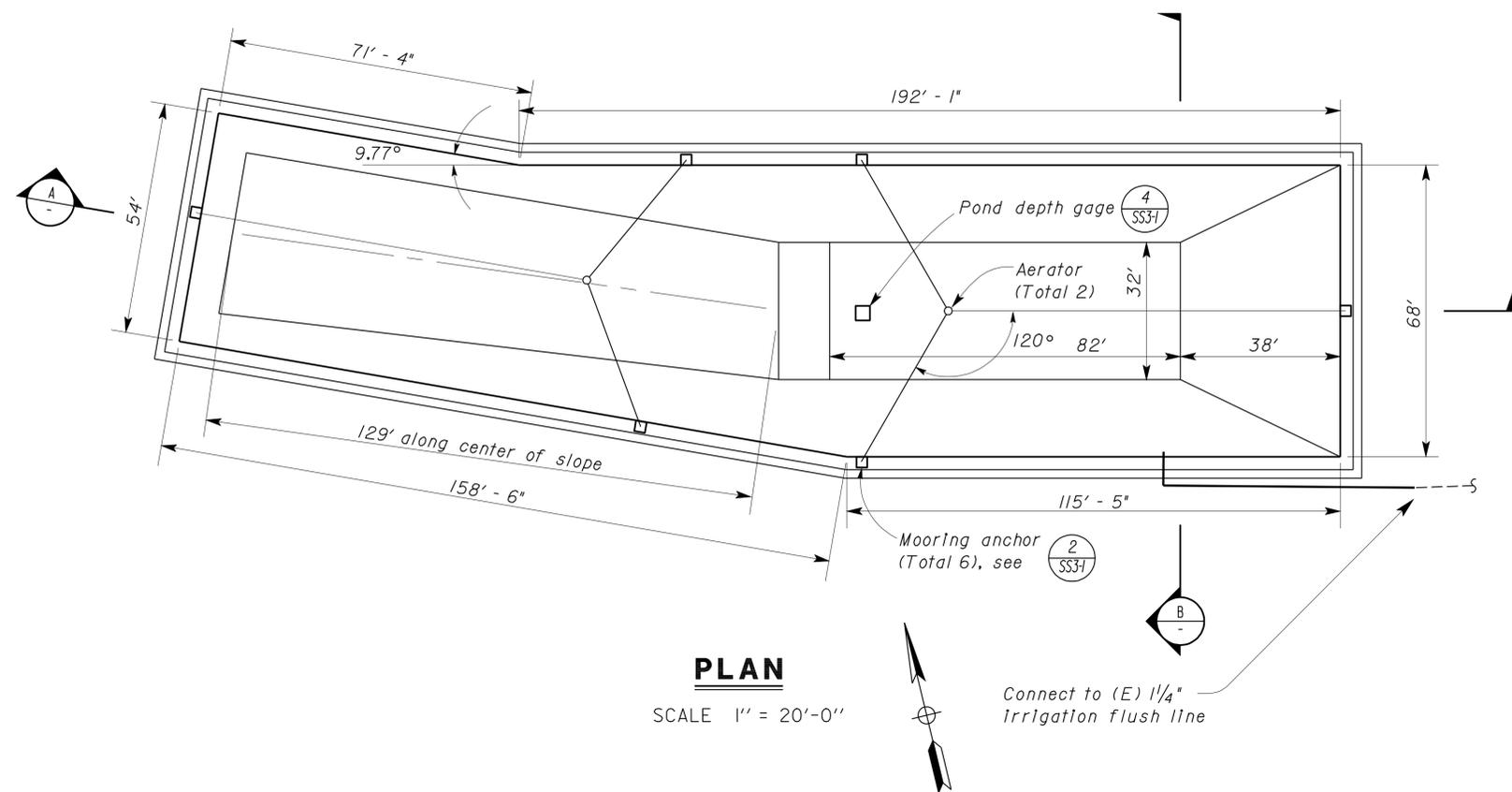
EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
SUBMERSIBLE EFFLUENT PUMP	3/4	230	1	34	42

- Notes*
- Provide deadman and tiedowns for the tank as per manufacturer recommendations.
 - Tank baffles shall be installed at locations to divide tank volume into 10,500 gallons for the first compartment, 3,000 gallons for the second compartment, and 1,500 gallons for the third compartment. Lengths may vary by manufacturer.

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET SS1-2
			POST MILE		EASTBOUND
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-01-09 01-27-09 02-25-09 03-29-09 06-30-10 09-27-10	SHEET OF

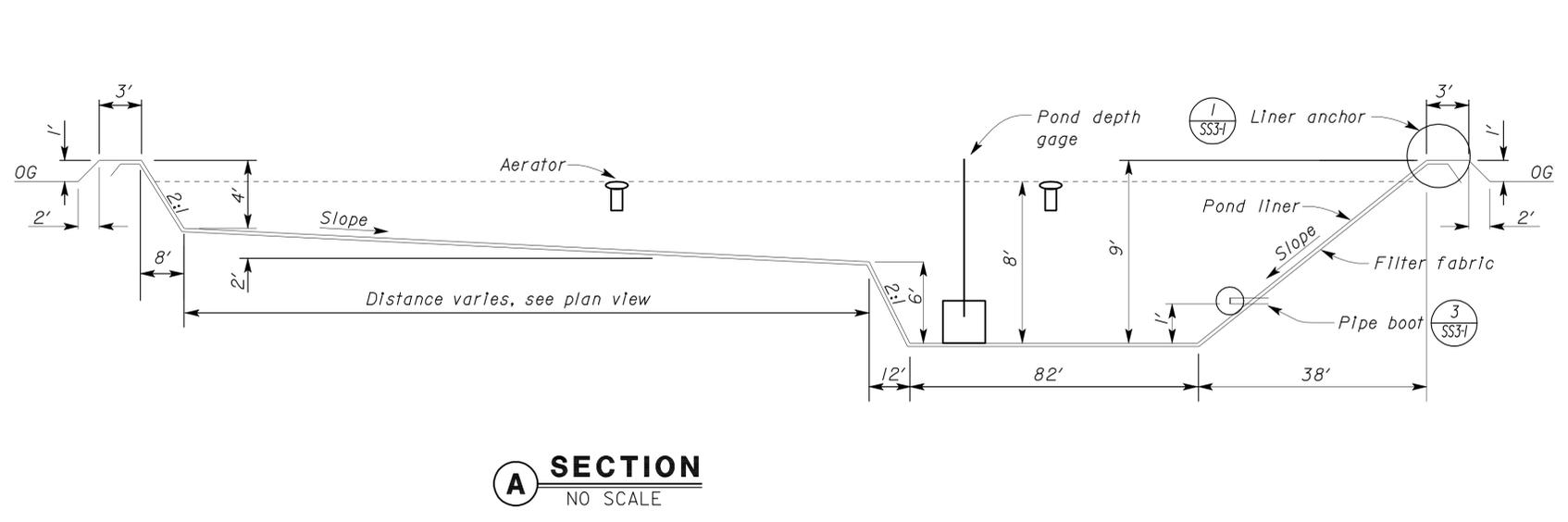
EA 261521 ss1_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	30	50
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			09-27-10 DATE		
3-21-11 PLANS APPROVAL DATE					
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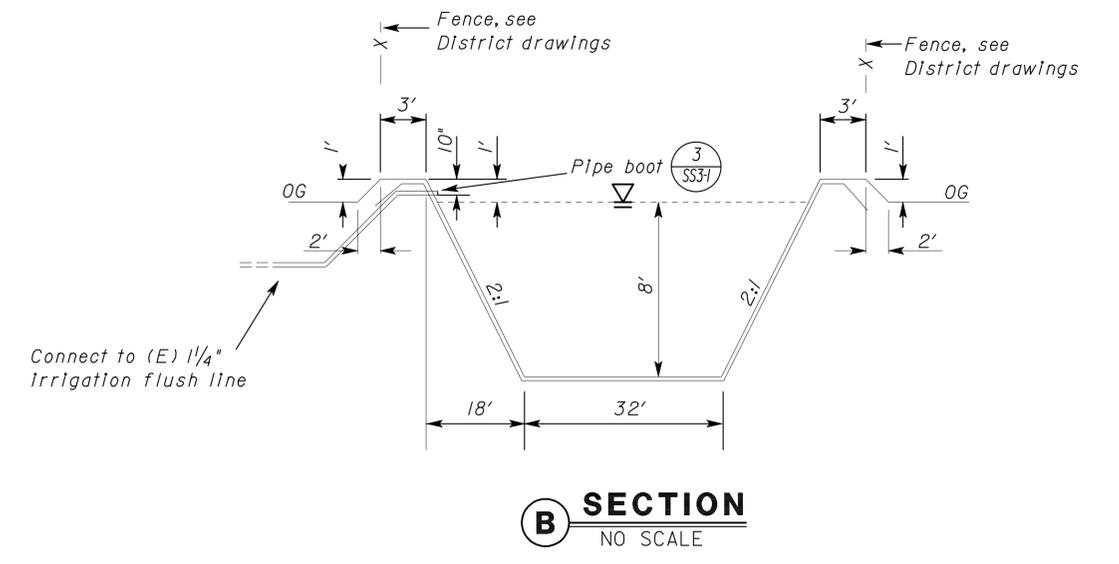
PLAN
SCALE 1" = 20'-0"

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021



A SECTION
NO SCALE

Note: Section is skewed omitting angle.



B SECTION
NO SCALE

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SUNBEAM SAFETY ROADSIDE REST AREA		SHEET OF
			58R0003R	RV WASTE PONDS		
			POST MILE	EASTBOUND	RV WASTE POND	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT PROJECT NUMBER & PHASE	REVISION DATES (PRELIMINARY STAGE ONLY) 01-01-09 01-27-09 02-25-09 03-29-09 08-30-10 09-27-10		
TAEMWW Imperial Rev. 7/10			3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

23-MAR-2011 13:04

ss1_03.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	31	50

Jerry R. Marcotte
REGISTERED CIVIL ENGINEER
DATE 09-27-10

J. Marcotte
No. C 36844
Exp. 06-30-12
CIVIL
STATE OF CALIFORNIA

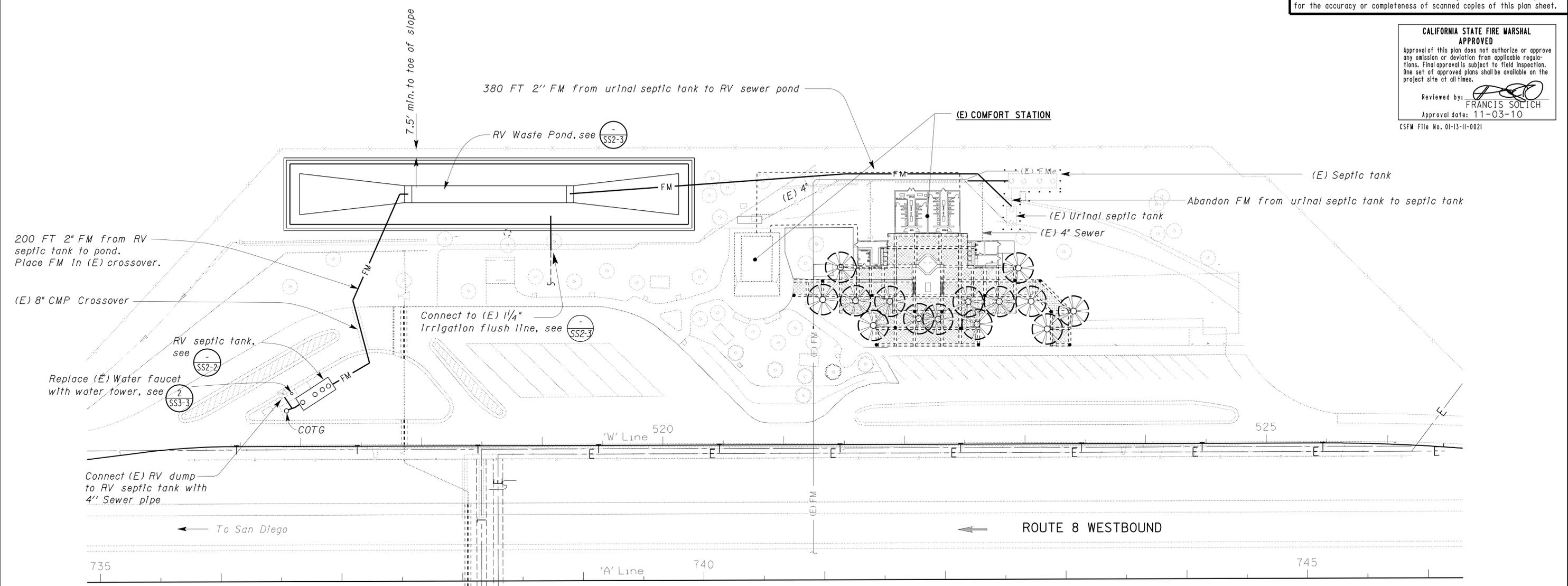
3-21-11
PLANS APPROVAL DATE

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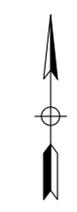
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-03-10
CSFM File No. 01-13-11-0021



WESTBOUND MODIFIED SITE PLAN
SCALE 1" = 40'-0"



TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003L POST MILE	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET OF SS2-1
	DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>		PROJECT NUMBER & PHASE 3616 11000002121	WESTBOUND MODIFIED SITE PLAN	REVISION DATES (PRELIMINARY STAGE ONLY) 01-01-09 01-27-09 02-25-09 03-23-09 06-30-10 09-27-10	SHEET OF
	QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>		UNIT EA 261521	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF	

23-MAR-2011 13:50

ss2_01.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	32	50

Jerome R. Marcotte 09-27-10
 REGISTERED CIVIL ENGINEER DATE

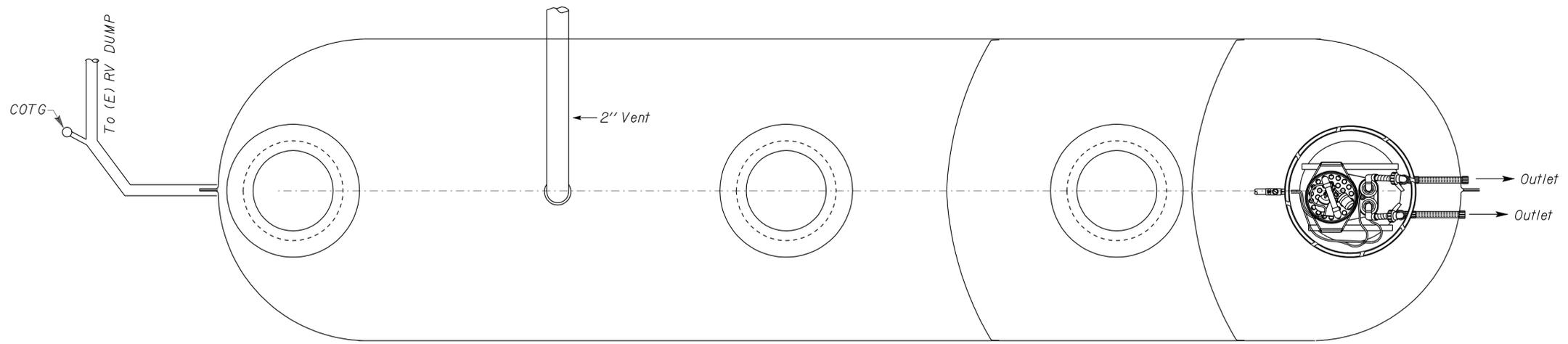
REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C 36844
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA

3-21-11
 PLANS APPROVAL DATE

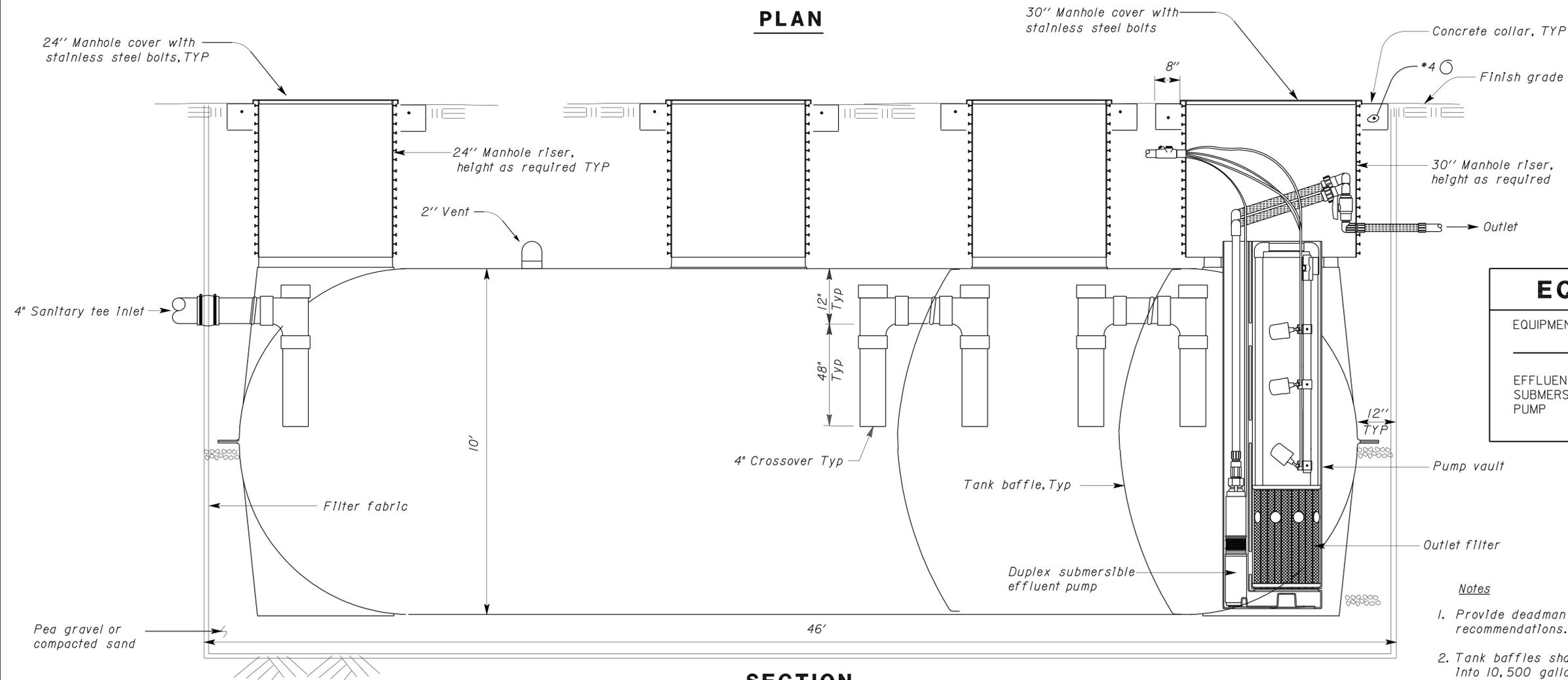
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Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021



PLAN



SECTION

1 SEPTIC TANK - 15,000 GALLON
 No Scale

EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT SUBMERSIBLE PUMP	1/2	230	1	34	42

- Notes**
- Provide deadman and tledowns for the tank as per manufacturer recommendations.
 - Tank baffles shall be installed at locations to divide tank volume into 10,500 gallons for the first compartment, 3,000 gallons for the second compartment, and 1,500 gallons for the third compartment. Lengths may vary by manufacturer.

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS		SHEET SS2-2
			POST MILE	WESTBOUND	RV SEPTIC TANK	OF
DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	UNIT PROJECT NUMBER & PHASE 3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 261521	01-01-09 01-27-09 02-25-09 03-29-09 06-30-10 09-27-10			OF

TAEMWW Imperial Rev. 7/10
 ss2_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	33	50

<i>Jerome R. Marcotte</i>	09-27-10	REGISTERED PROFESSIONAL ENGINEER No. C 36844 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	

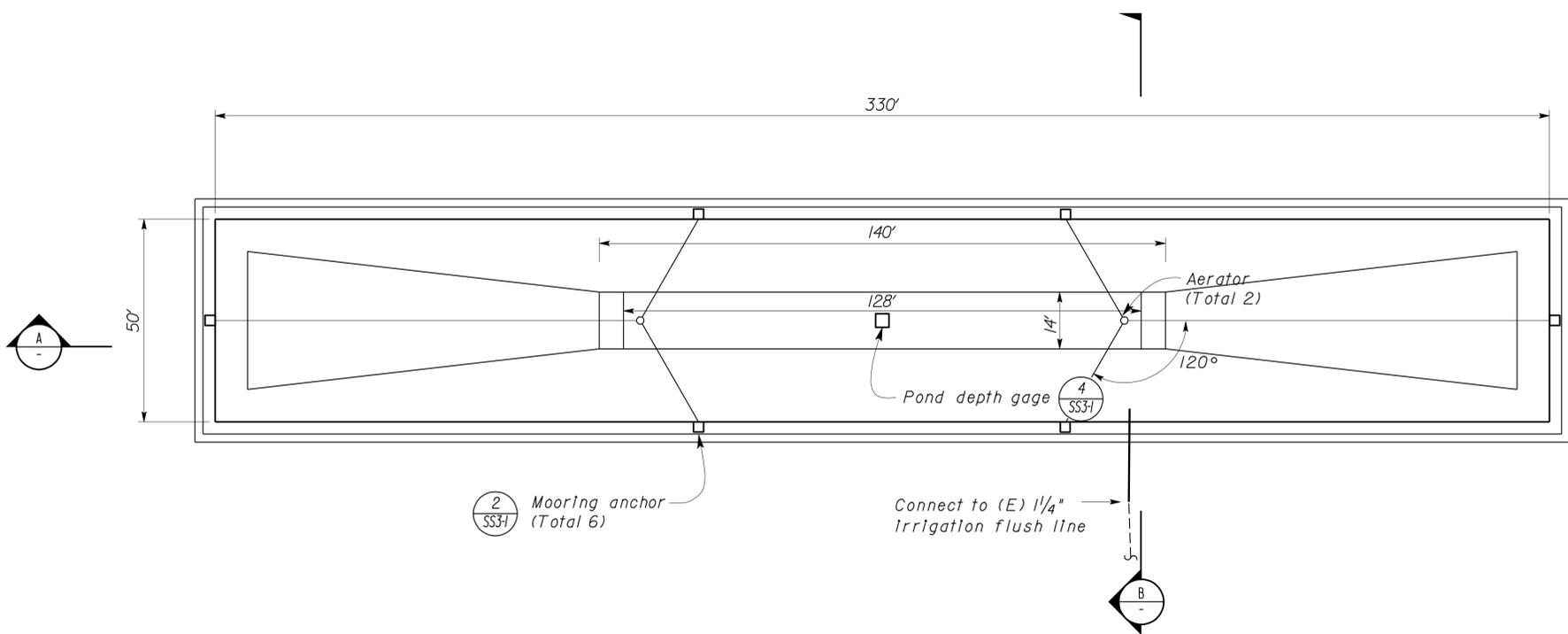
3-21-11
PLANS APPROVAL DATE

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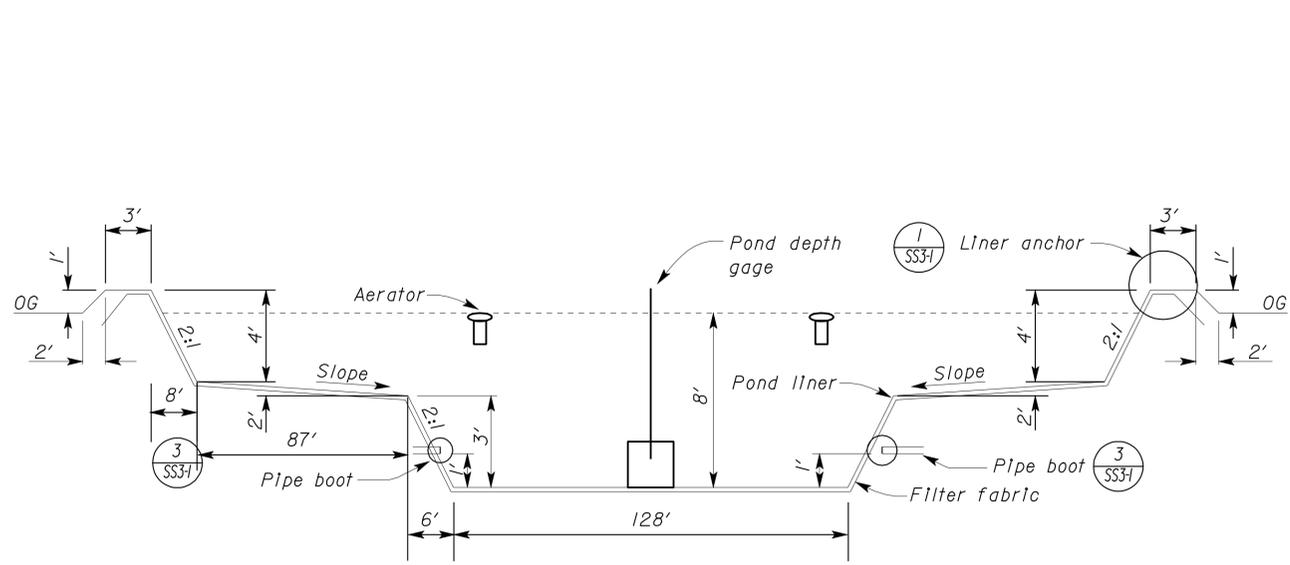
CALIFORNIA STATE FIRE MARSHAL APPROVED

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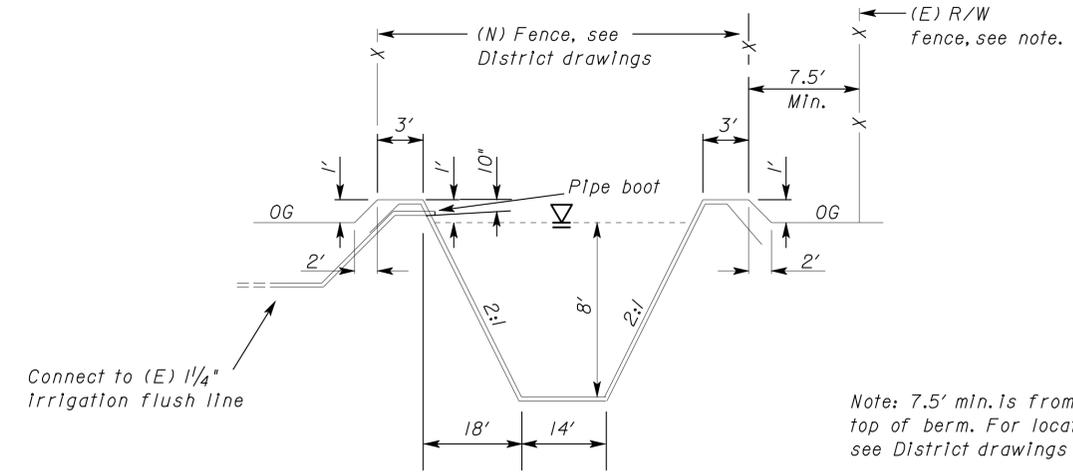
Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-03-10
CSFM File No. 01-13-11-0021



PLAN
SCALE 1" = 20'-0"



A SECTION
NO SCALE



B SECTION
NO SCALE

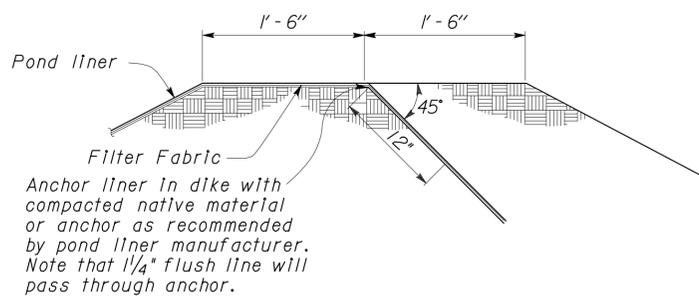
TAEMWW Imperial Rev. 7/10	DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS		SHEET SS2-3
	DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte			POST MILE		WESTBOUND	RV WASTE POND	
	QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte							
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
									01-01-09 01-27-09 02-25-09 03-29-09 06-30-10 09-27-10	

23-MAR-2011 13:05
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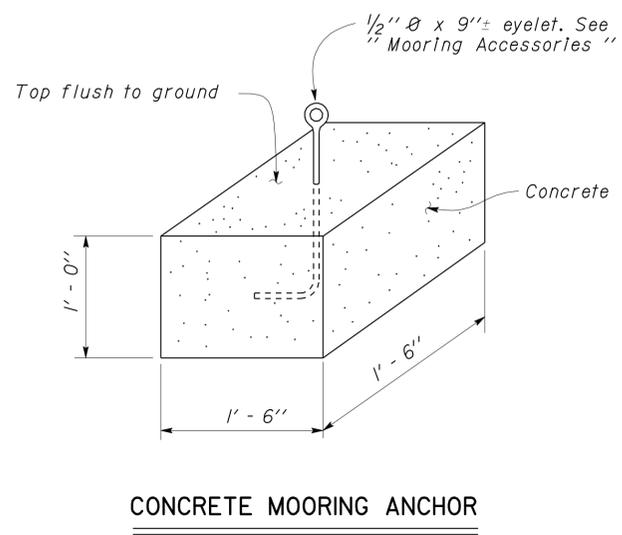
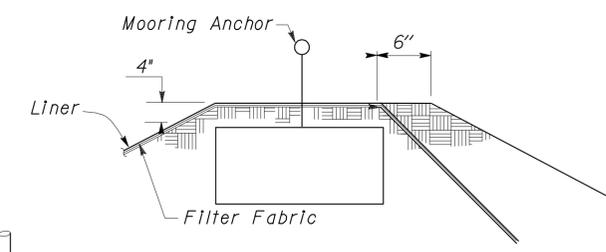
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	34	50

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	09-27-10 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C 36844 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA
3-21-11 PLANS APPROVAL DATE		

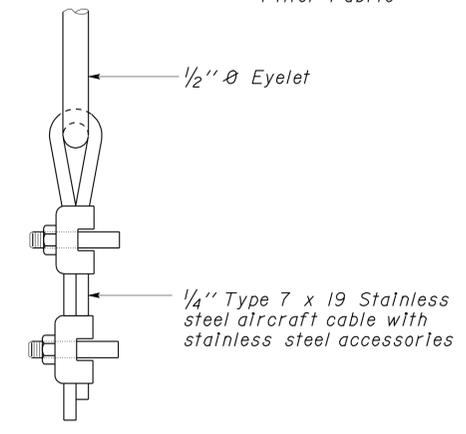
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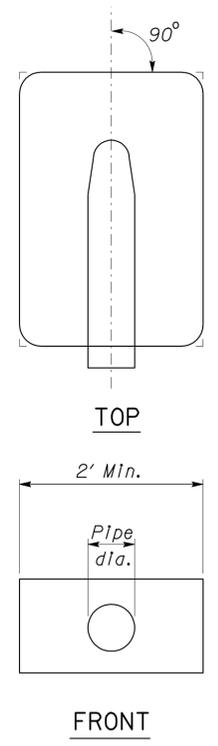
1 LINER ANCHOR DETAIL
NO SCALE



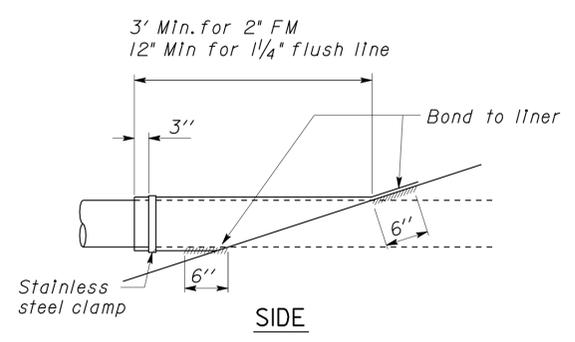
MOORING ACCESSORIES



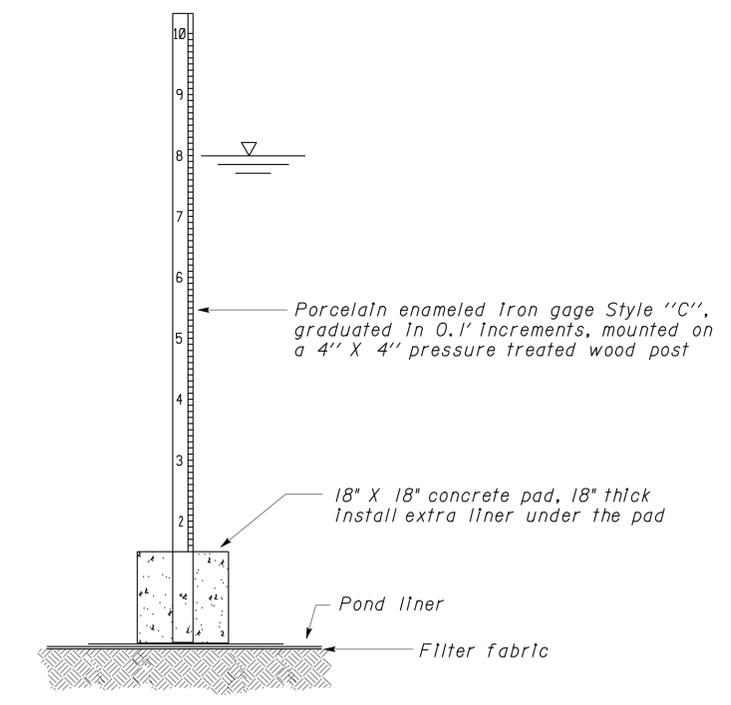
2 MOORING ANCHOR DETAILS
NO SCALE



Note:
Boot to be fabricated from same material as pond liner.



3 PIPE BOOT DETAIL
NO SCALE



4 POND DEPTH GAGE
NO SCALE

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R/L	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET
			POST MILE		DETAILS I
DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	UNIT PROJECT NUMBER & PHASE 3616 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 261521	01-01-09 01-27-09 02-25-09 03-23-09 08-30-10 09-27-10		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	35	50

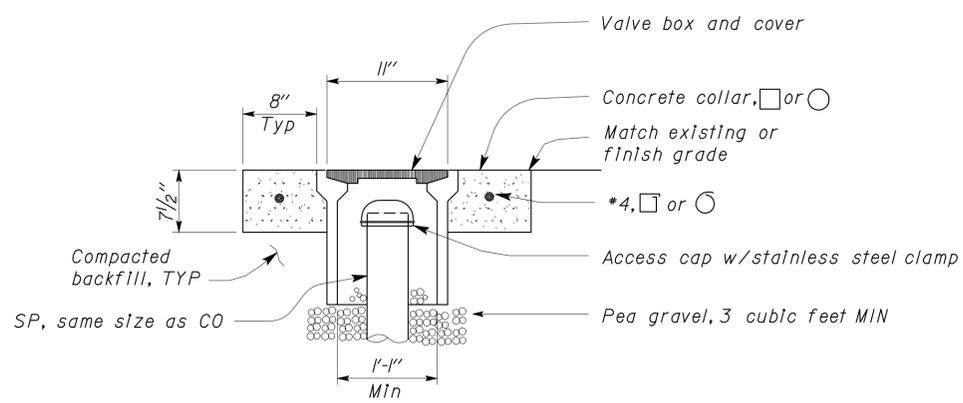
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER		09-27-10 DATE
3-21-11 PLANS APPROVAL DATE		
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CALIFORNIA STATE FIRE MARSHAL APPROVED

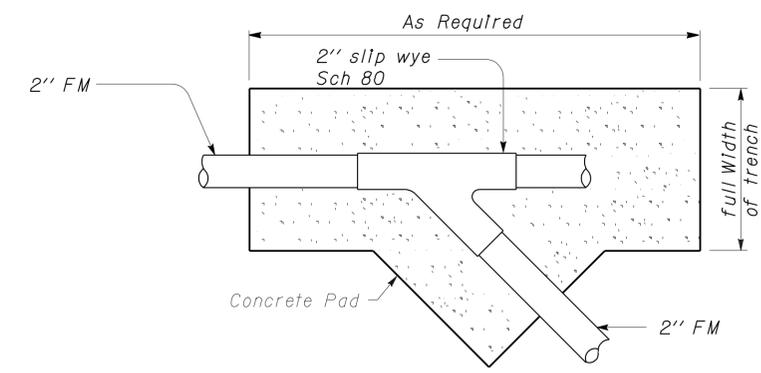
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Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09

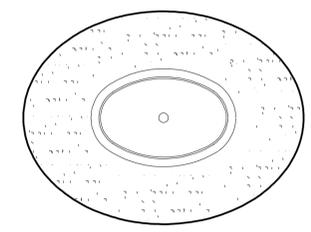
CSFM File No. 01-13-11-0021



A COTG ACCESS BOX
NO SCALE

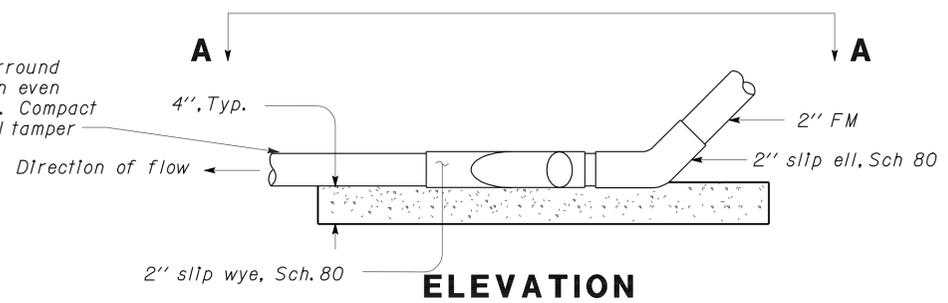


SECTION A-A

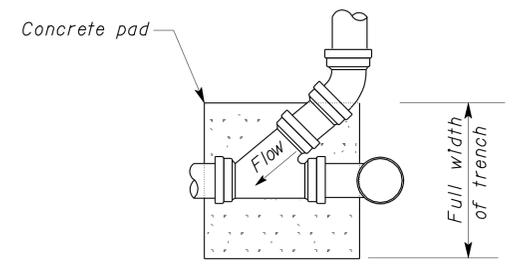


SECTION B-B

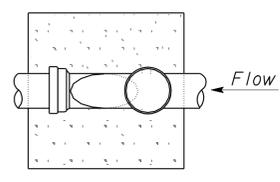
Sand backfill, TYP. Surround pipe with sand. Place in even lifts both sides of pipe. Compact continuously with manual tamper



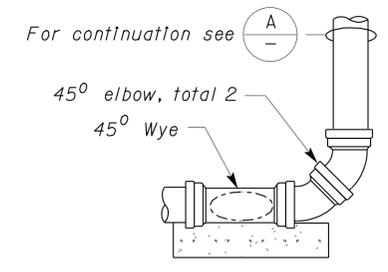
ELEVATION



PLAN

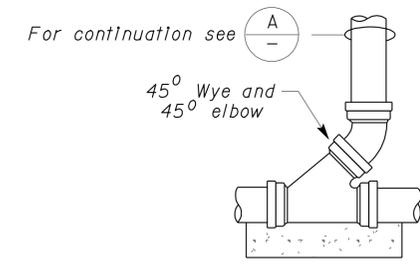


PLAN



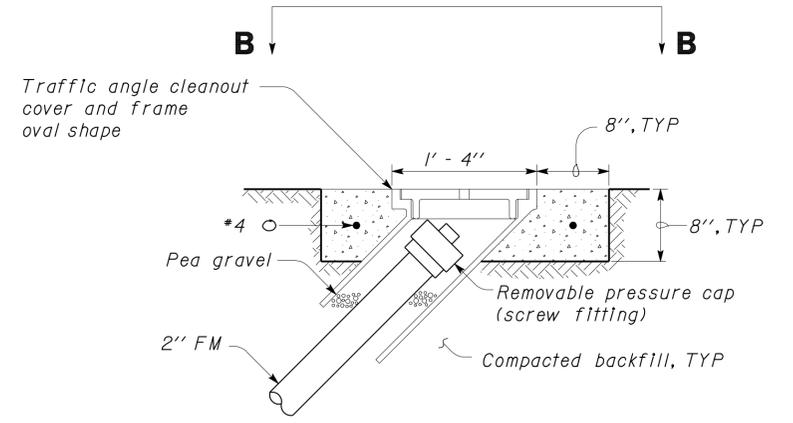
ELEVATION

CLEANOUT (AT BEND)



ELEVATION

CLEANOUT (STANDARD)



2 FORCE MAIN CLEANOUT
NO SCALE

1 CLEANOUT TO GRADE
NO SCALE

Concrete pad shown typical for all cleanouts

NOTE
Concrete pad shown typical for all cleanouts.

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET
			58R0003R/L		SS3-2
			POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT PROJECT NUMBER & PHASE 3616 11000002121	REVISION DATES (PRELIMINARY STAGE ONLY) 01-01-09 01-27-09 02-25-09 03-23-09 04-30-09 05-27-10	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	36	50

<i>Jerome R. Marcotte</i>	09-27-10
REGISTERED CIVIL ENGINEER	DATE

3-21-11
PLANS APPROVAL DATE

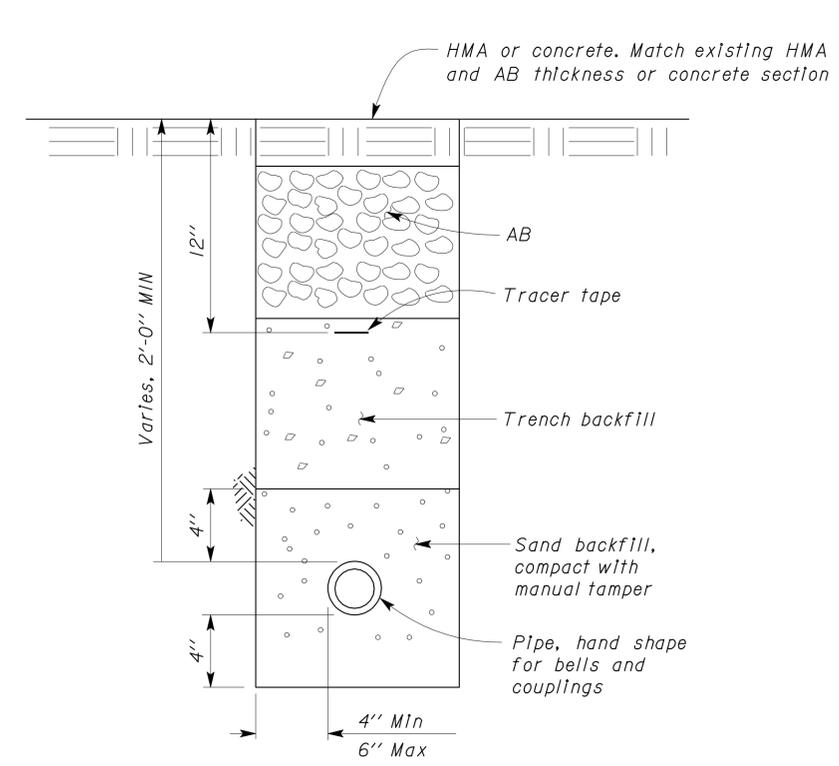
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



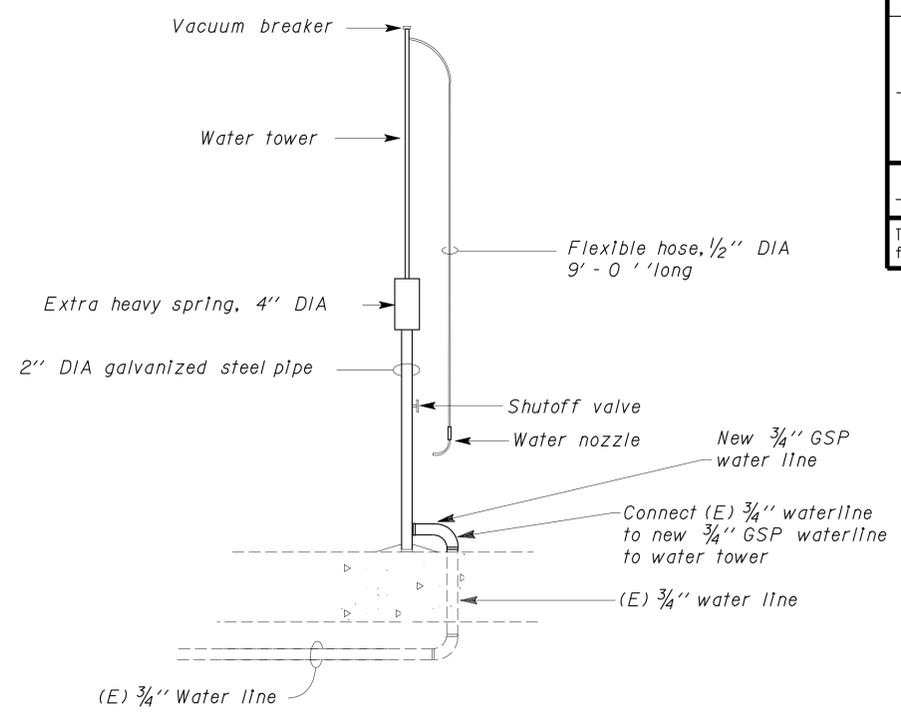
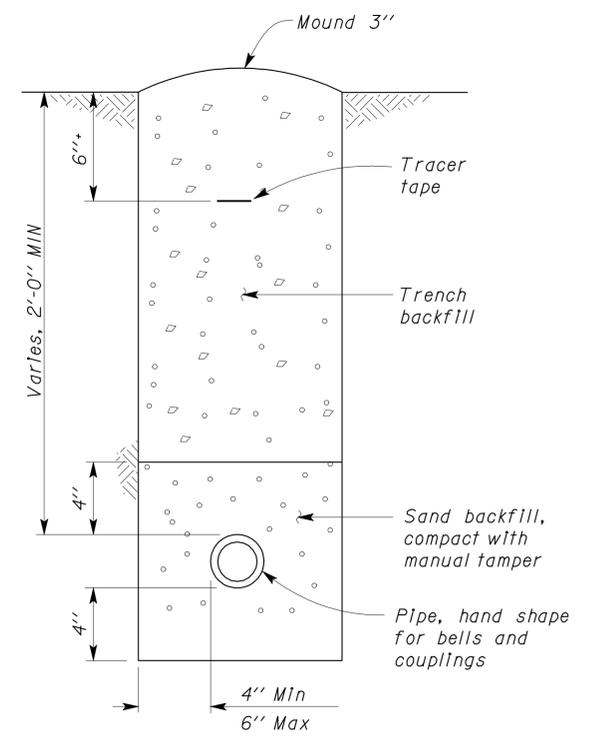
CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Francis Solich*
FRANCIS SOLICH
 CIVIL
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021

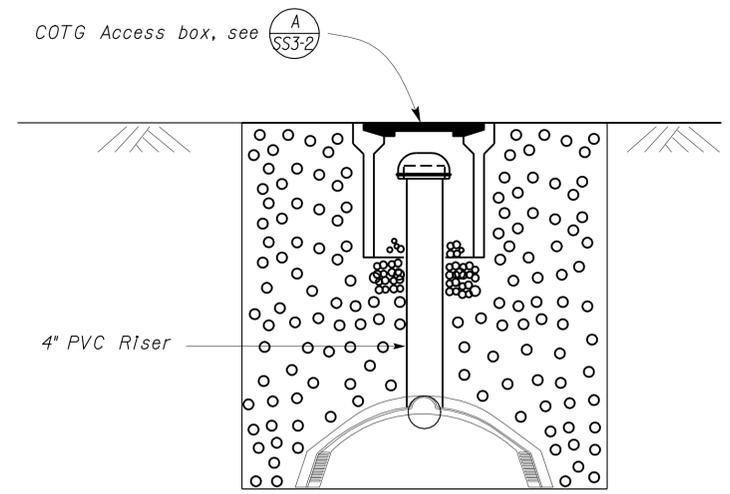


1 SEWER PIPE / FORCE MAIN
NO SCALE

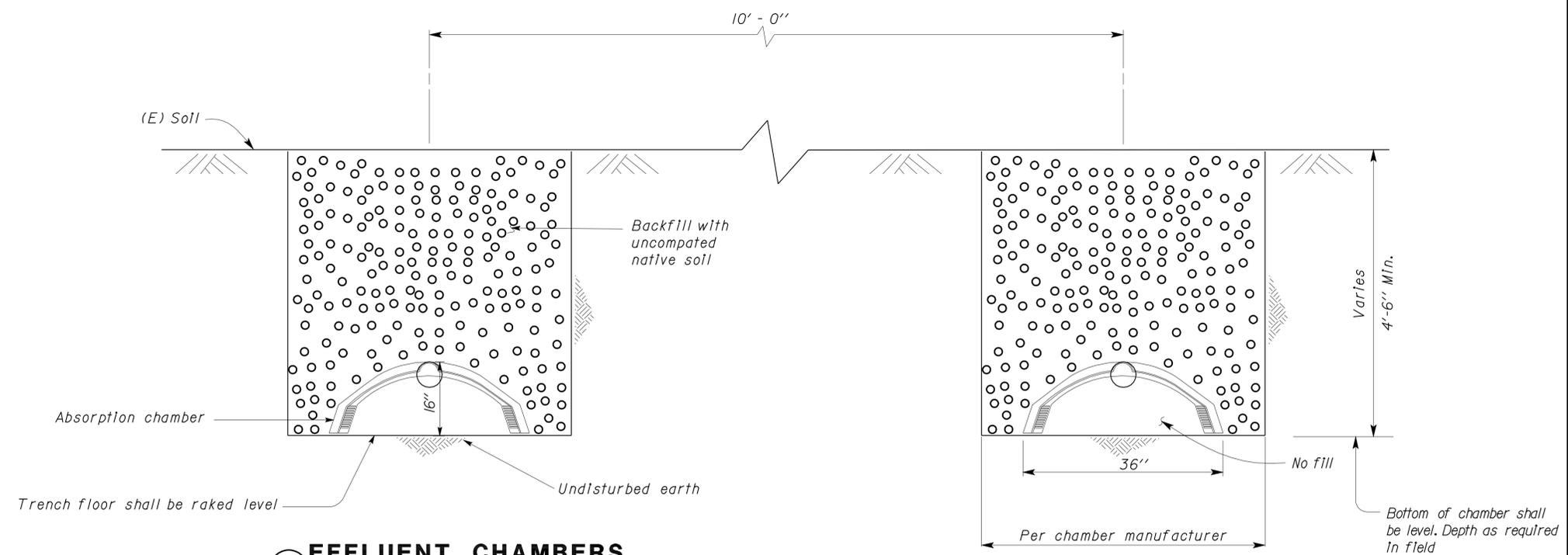


2 WATER TOWER
NO SCALE

Note: Contractor to verify type of pipe for (E) 3/4" Water line prior to constructing water tower.



OBSERVATION WELL



3 EFFLUENT CHAMBERS
NO SCALE

DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte
DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte
QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R/L
 POST MILE

SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS
 DETAILS 3

SHEET **SS3-3**

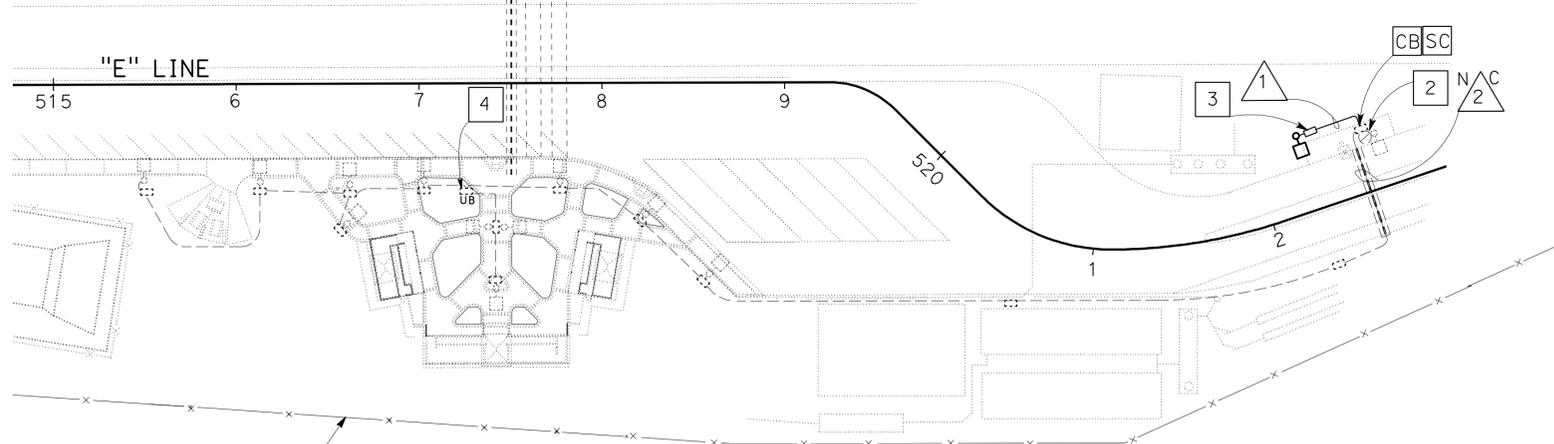
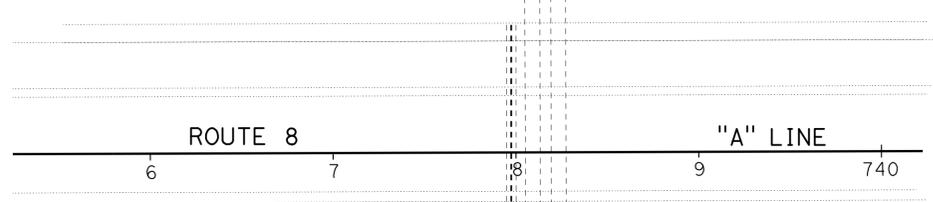
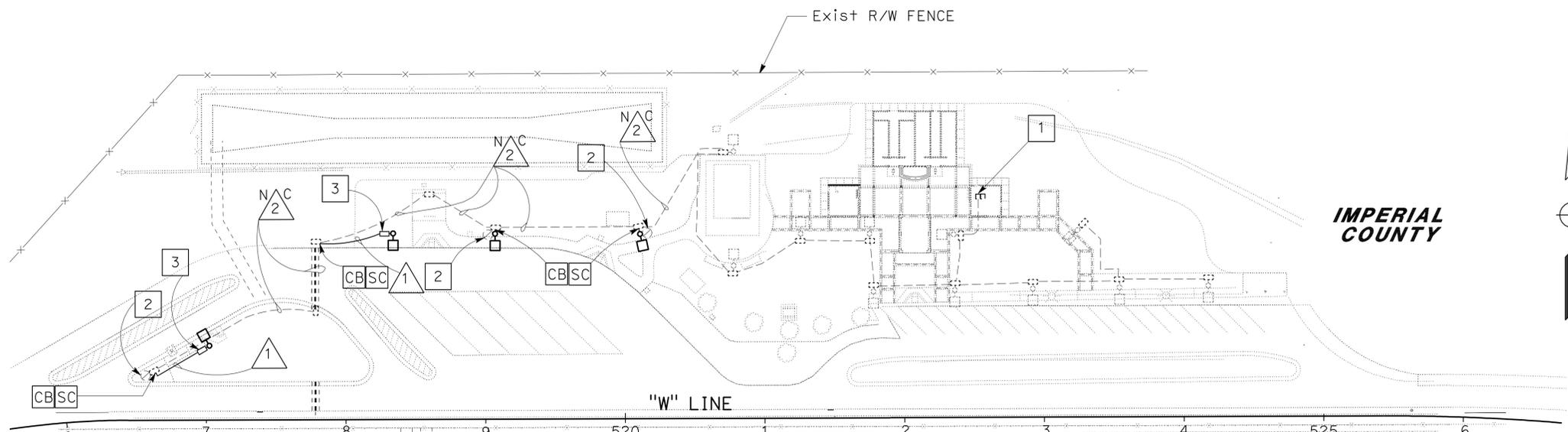
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	37	50

Enrique P. Bernal 12-20-10
 REGISTERED ELECTRICAL ENGINEER DATE
 3-21-11
 PLANS APPROVAL DATE

ENRIQUE P. BERNAL
 No. 15675
 Exp. 06-30-12
 ELECT
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



NOTES:

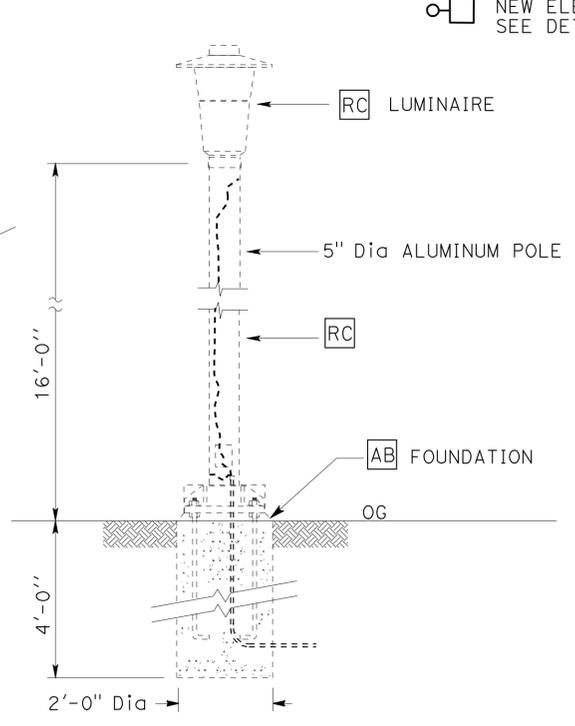
- 1 EXISTING SERVICE DISCONNECT LOCATED IN UTILITY/CHP ROOM (LOADCENTER "L2"). EXISTING PEU MOUNTED ON ROOF.
- 2 RC EXISTING 16' POLE WITH FIXTURE. SEE EXISTING ELECTROLIER DETAIL.
- 3 NON-PCC PULL BOX.
- 4 TO EXISTING SERVICE DISCONNECT LOCATED IN WOMEN'S UTILITY ROOM (LOADCENTER "W"). EXISTING PEU ON ROOF.

CONDUIT NOTES:

- 1 2"C, 2#8 (LTG), 1#6 G.
- N/C 2 EXISTING 1 1/2"C, 2#8 (ltg), 1#6 G.

LEGEND:

- EXISTING ELECTROLIER. SEE DETAIL
- EXISTING ELECTROLIER 15' POLE WITH 150 W HPS LUMINAIRE
- NEW ELECTROLIER, 15' POLE WITH 150 W HPS LUMINAIRE, SEE DETAIL ON SHEET E-2



EXISTING ELECTROLIER DETAIL

LIGHTING

SCALE: 1" = 50'

E-1

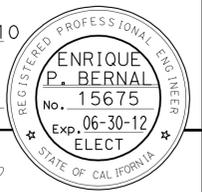
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Catalina Flores
 ENRIQUE BERNAL
 DALE WILSON
 TRAFFIC ELECTRICAL

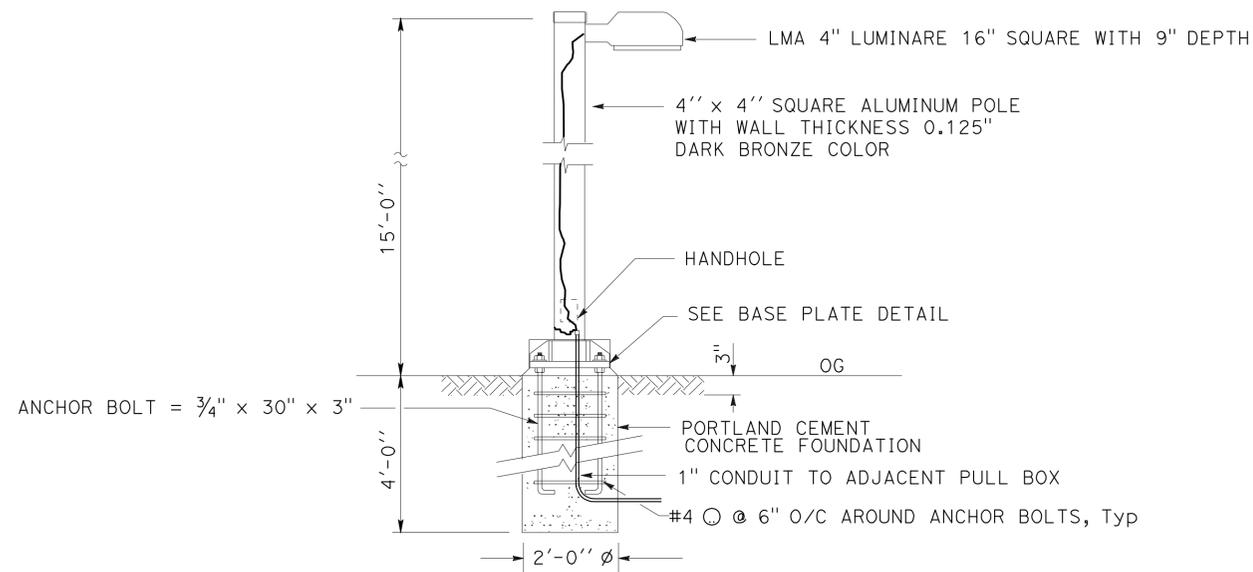
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	38	50

<i>Enrique P. Bernal</i>	12-20-10
REGISTERED ELECTRICAL ENGINEER	DATE
3-21-11	
PLANS APPROVAL DATE	

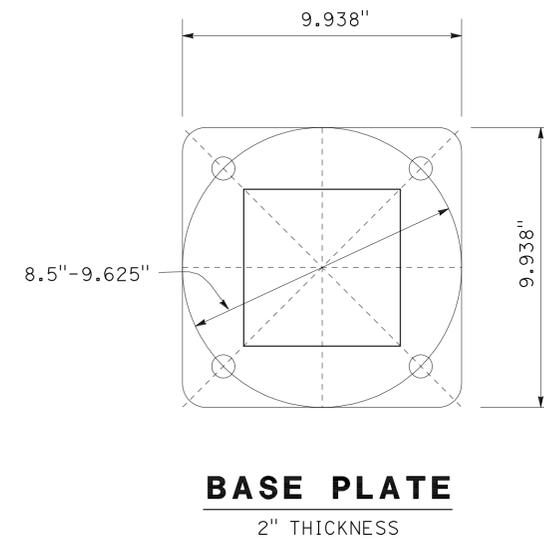
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
Caltrans	DALE WILSON	CATALINA FLORES	ENRIQUE BERNAL	
TRAFFIC ELECTRICAL	CHECKED BY			



ELECTROLIER AND FOUNDATION DETAIL



BASE PLATE
2" THICKNESS

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

LIGHTING

E - 2



LEGEND

- (2) 1/2" C, PVC, 2#12
 CONDUCTOR INFO (PER CONDUIT)
 CONDUIT TYPE
 CONDUIT SIZE
 NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
- MC— CONDUIT, RIGID STEEL, UNDERGROUND
- PVC— CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
- CONDUIT, TURN UP
- CONDUIT, TURN DOWN
- ➔ ADAPTER, ONE TYPE CONDUIT TO ANOTHER
- E-E- EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
- E PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)

ABBREVIATIONS

- C CONDUIT
- (E) EXISTING
- G GROUND
- MC METALLIC CONDUIT
- (N) NEW
- PVC POLYVINYL CHLORIDE
- (T) TRAFFIC RATED
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- RV RECREATIONAL VEHICLE
- INFO INFORMATION

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021

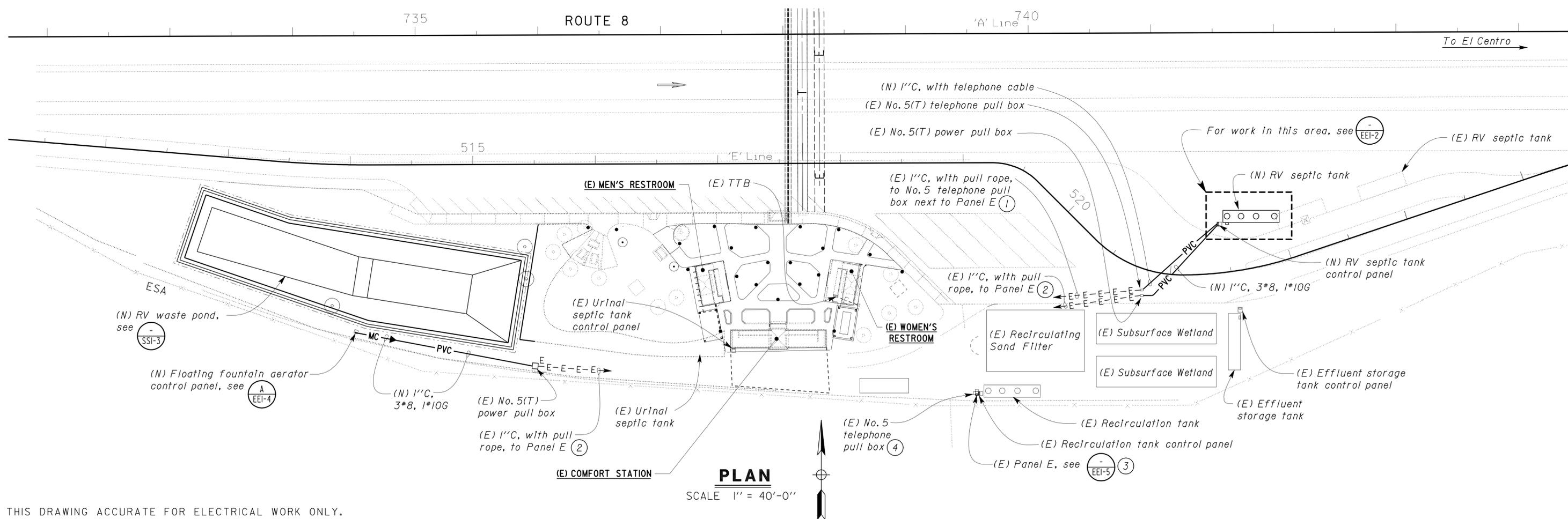
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	39	50

<i>Tech Ngo</i>		9-23-10
REGISTERED ELECTRICAL ENGINEER	DATE	

3-21-11
PLANS APPROVAL DATE

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- Notes:**
- ① Install telephone cable.
 - ② Install 3*8, 1#10G. Connect wires in Panel E to spare 30-ampere, 2-pole circuit breaker.
 - ③ Remove nameplates for spare circuit breakers in space #3 and #5. Install nameplate with inscription with 1/8" high lettering in space #3 "RV SEPTIC TANK", and in space #5 "FLOATING FOUNTAIN AERATOR".
 - ④ Splice spare telephone cables to cable from new RV septic tank control panel.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR <i>[Signature]</i> DESIGN ENGINEER <i>[Signature]</i>	DESIGN BY Baldev S. Dehal	CHECKED Tech Ngo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	SHEET EE1-1
	DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal			POST MILE EASTBOUND		ELECTRICAL SITE PLAN
	QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngo	UNIT PROJECT NUMBER & PHASE 3597 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

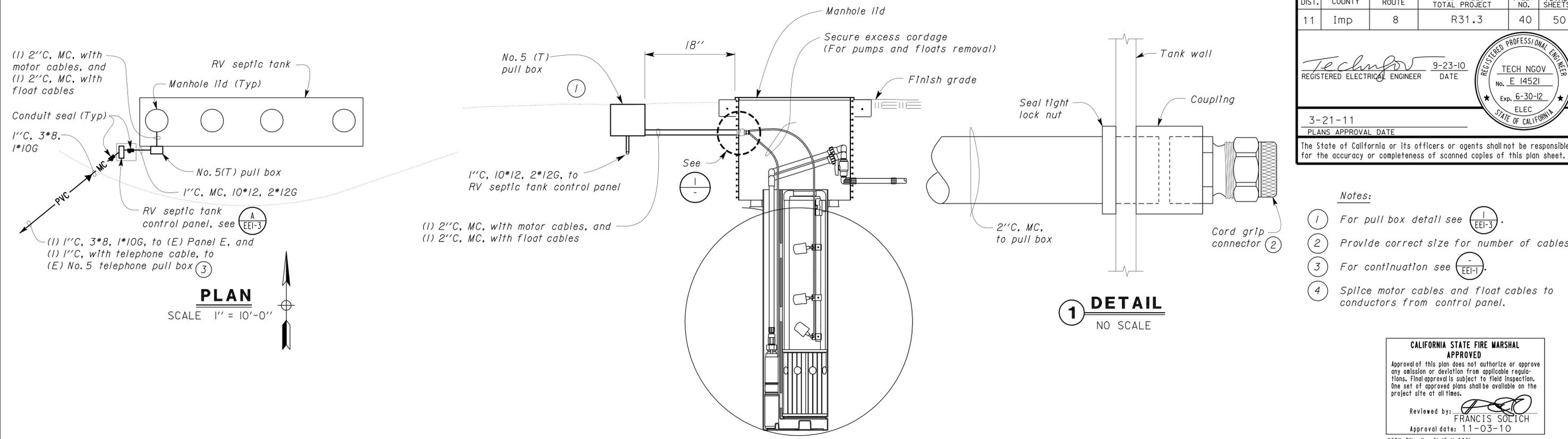
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

EA 261521

ee1_01.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	40	50

	
REGISTERED ELECTRICAL ENGINEER No. E 14521 Exp. 6-30-12 ELEC STATE OF CALIFORNIA	9-23-10 DATE
3-21-11 PLANS APPROVAL DATE	
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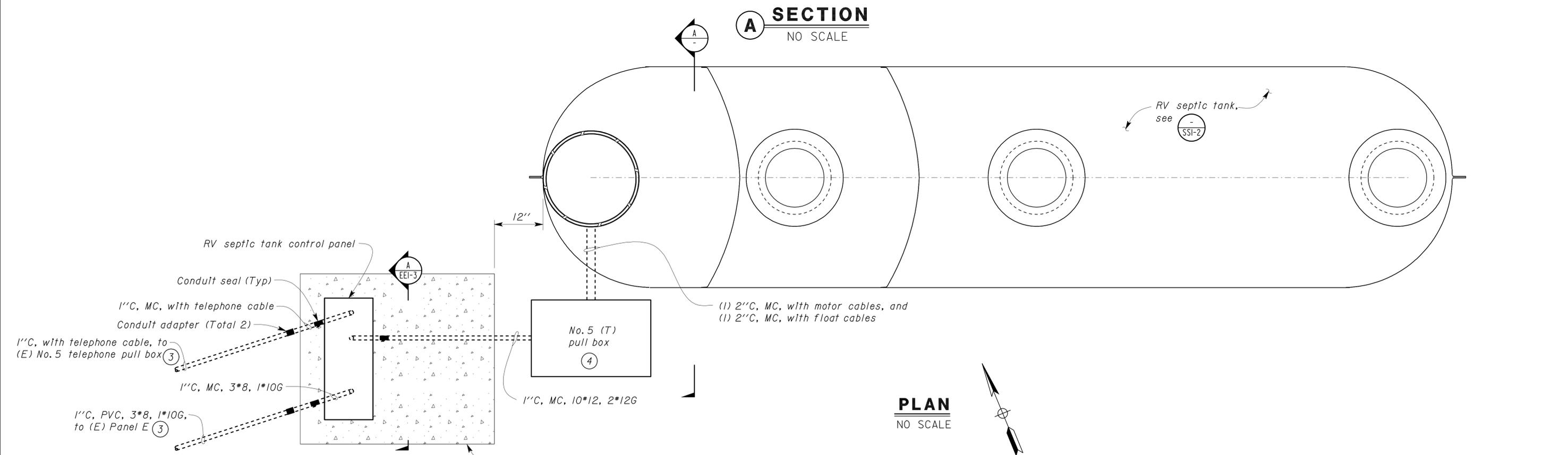


- Notes:**
- 1 For pull box detail see .
 - 2 Provide correct size for number of cables.
 - 3 For continuation see .
 - 4 Splice motor cables and float cables to conductors from control panel.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: 
 FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i> QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R POST MILE EASTBOUND	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS ENLARGED PARTIAL SITE PLAN AND RV SEPTIC TANK DETAILS	SHEET EE1-2 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT PROJECT NUMBER & PHASE 3597 11000002121	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 11/24/08 12/18/08 2/7/09 1/28/09 2/25/09 3/23/09 9/23/10	SHEET OF
	TAEWW Imperial Rev. 7/10 EA 261521						

23-MAR-2011 12:09 ee1_02.dgn

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 Reviewed by: *[Signature]*
FRANCIS SOLICH
 Approval date: 11-03-10
 CSFW File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	41	50

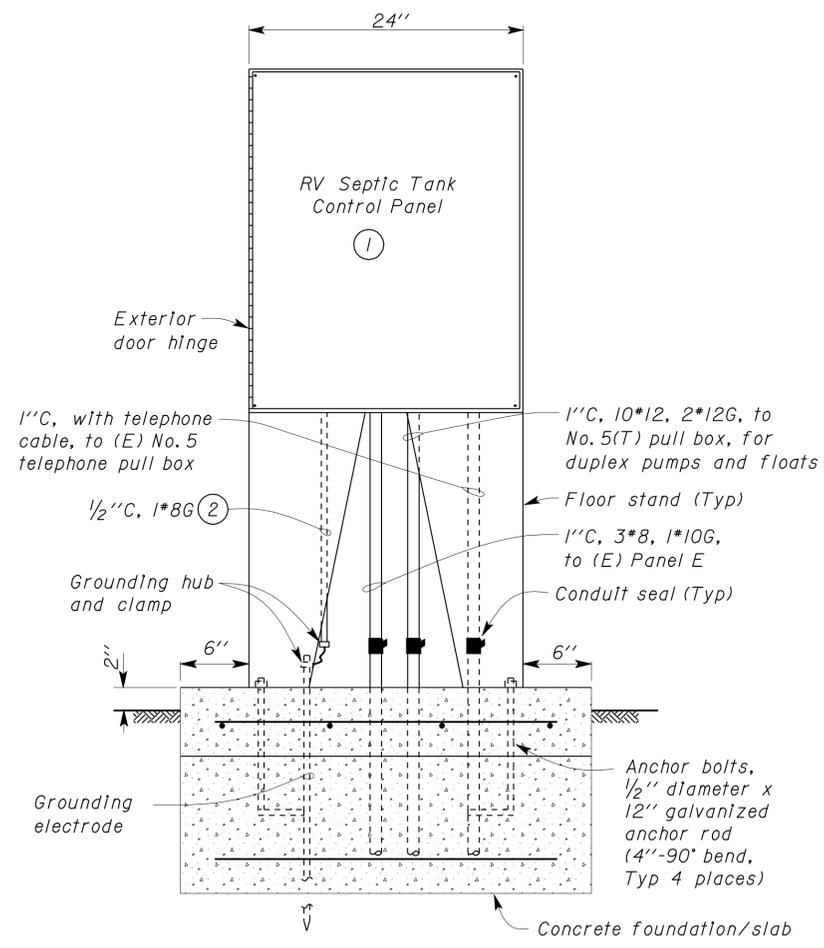
<i>Tech Ngo</i>	9-23-10
REGISTERED ELECTRICAL ENGINEER	DATE

3-21-11
 PLANS APPROVAL DATE

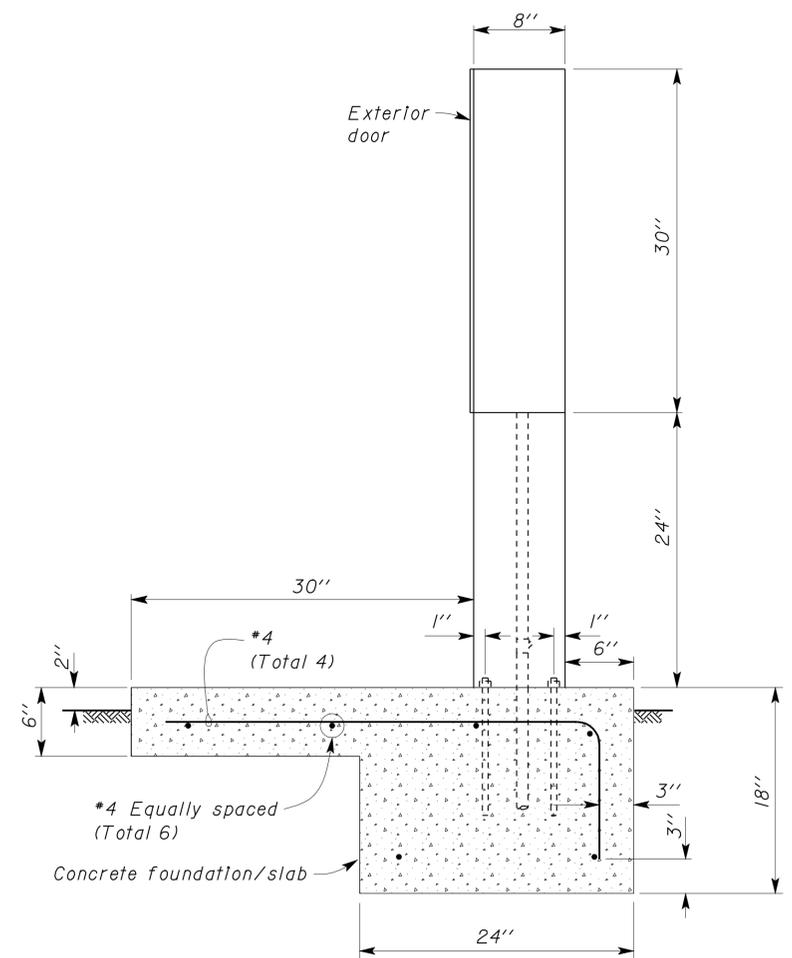
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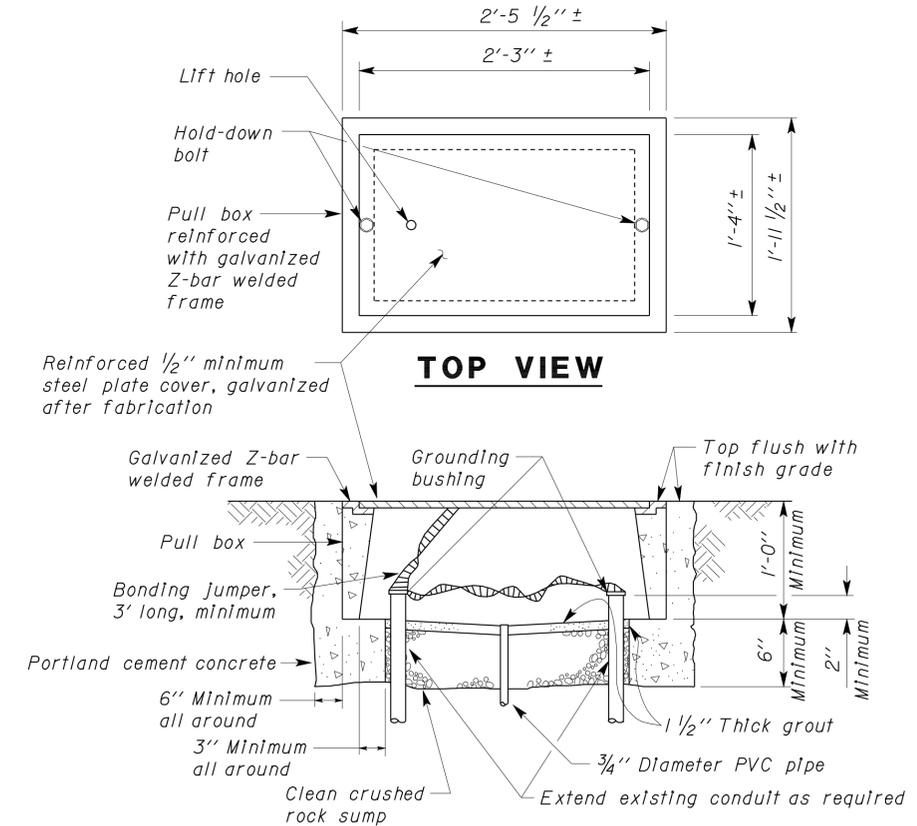
- Notes:
- Control panel shall be supplied by duplex filtered pump system supplier. If control panel supplied is smaller than as shown, The Contractor shall install the smaller cabinet inside the cabinet as shown.
 - Support conduit.



FRONT VIEW



SIDE VIEW



TOP VIEW

SECTION

NO. 5 (T) PULL BOX

A ELEVATION
 NO SCALE

1 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngo
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngo

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
 POST MILE EASTBOUND

SUNBEAM SAFETY ROADSIDE REST AREA
RV WASTE PONDS
 RV SEPTIC TANK CONTROL PANEL DETAILS

SHEET **EE1-3** OF

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3597 11000002121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

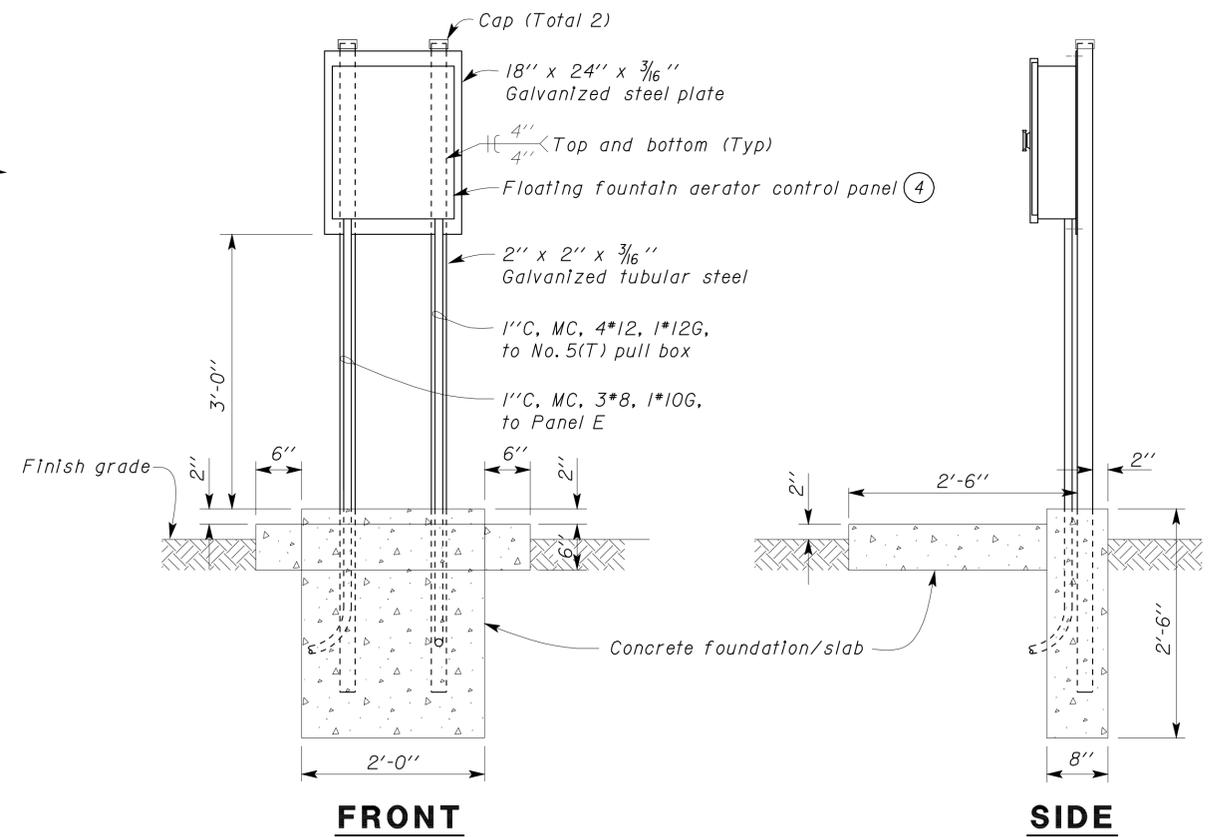
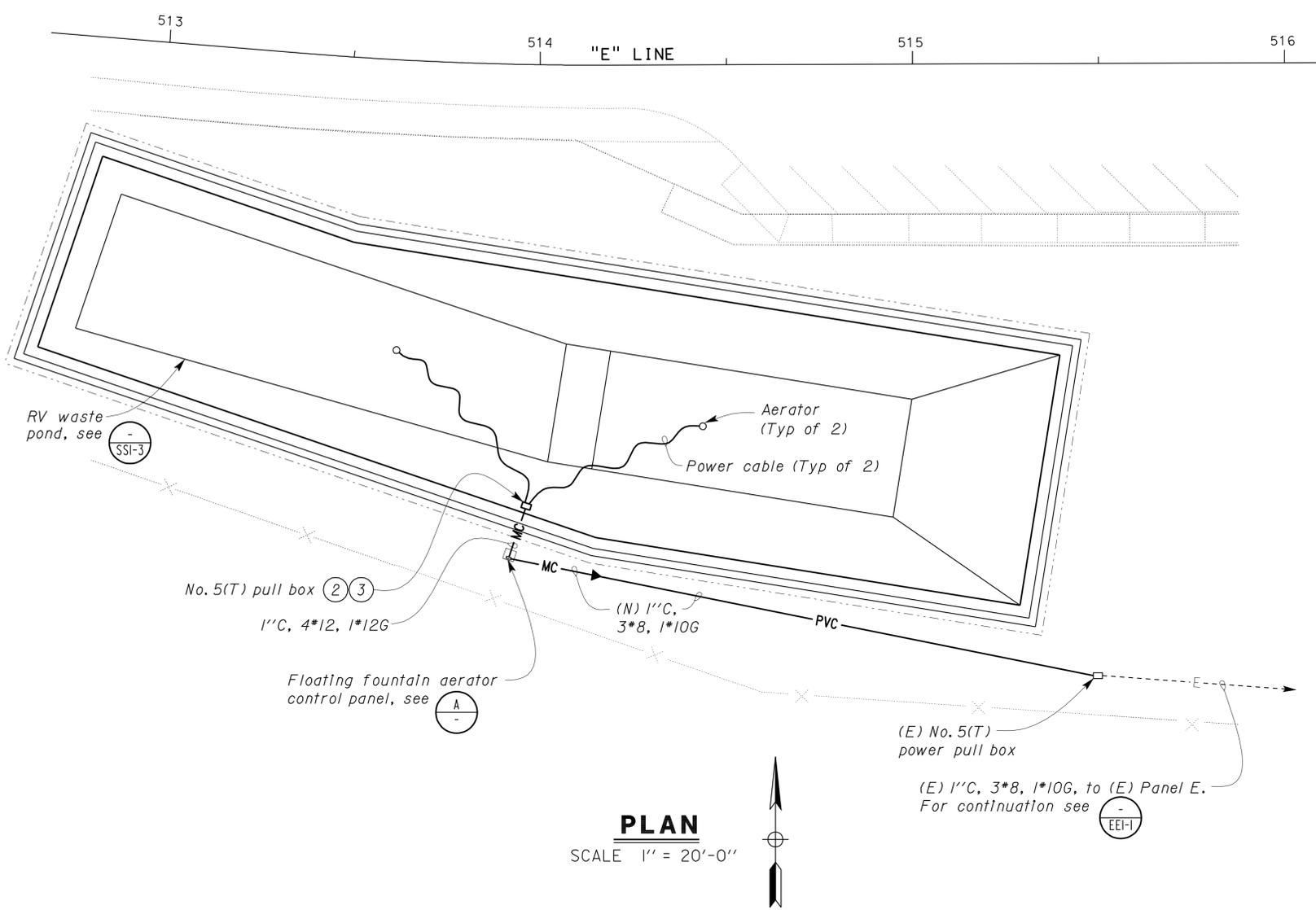
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

23-MAR-2011 12:09 ee1_03.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	42	50

Reviewed by: <i>Francis Solich</i> FRANCIS SOLICH Registered Electrical Engineer Approval date: 11-03-10 CSFM File No. 01-13-11-0021	9-23-10 DATE	
3-21-11 PLANS APPROVAL DATE		
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ELEVATION
(A) FLOATING FOUNTAIN AERATOR CONTROL PANEL
 SCALE 1" = 1'-0"

- Notes:
- 1 Power cable supplied by the floating fountain aerator unit manufacturer and shall be installed as recommended by the manufacturer.
 - 2 For pull box detail, see EEI-3.
 - 3 Splice fountain unit power cables to conductors from the control panel.
 - 4 Control panel shall be supplied by the floating fountain aerator unit manufacturer.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
 POST MILE EASTBOUND

SUNBEAM SAFETY ROADSIDE REST AREA
 RV WASTE PONDS
 ENLARGED PARTIAL SITE PLAN AND FLOATING FOUNTAIN AERATOR CONTROL PANEL DETAILS

SHEET OF
EE1-4

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

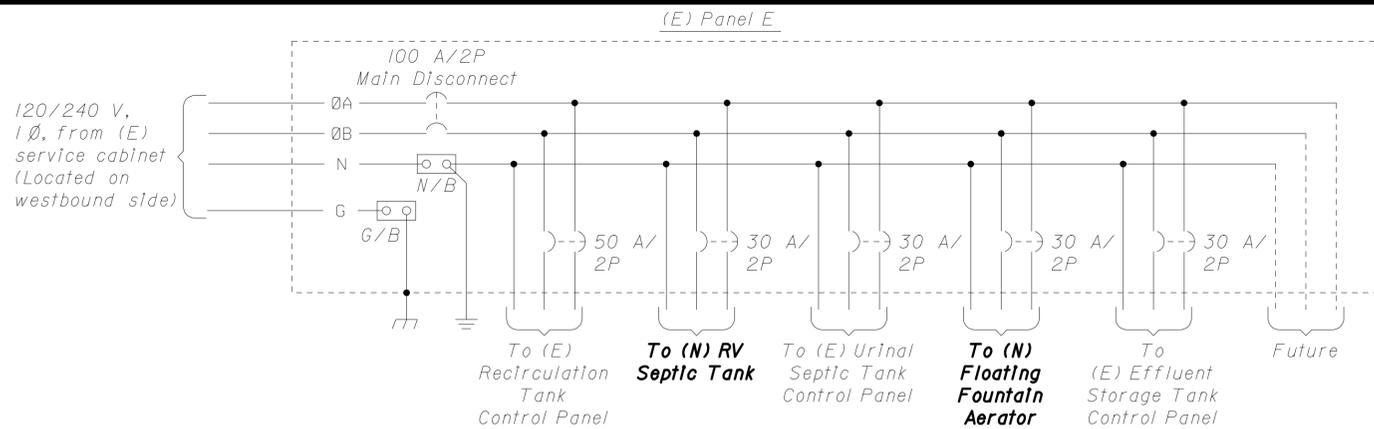
UNIT PROJECT NUMBER & PHASE 3597 11000002121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
1/24/08 1/26/09 2/25/09 8/19/09 9/23/09 8/26/10 9/23/10

SHEET OF

ee1_04.dgn



MODIFIED POWER SCHEMATIC

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021

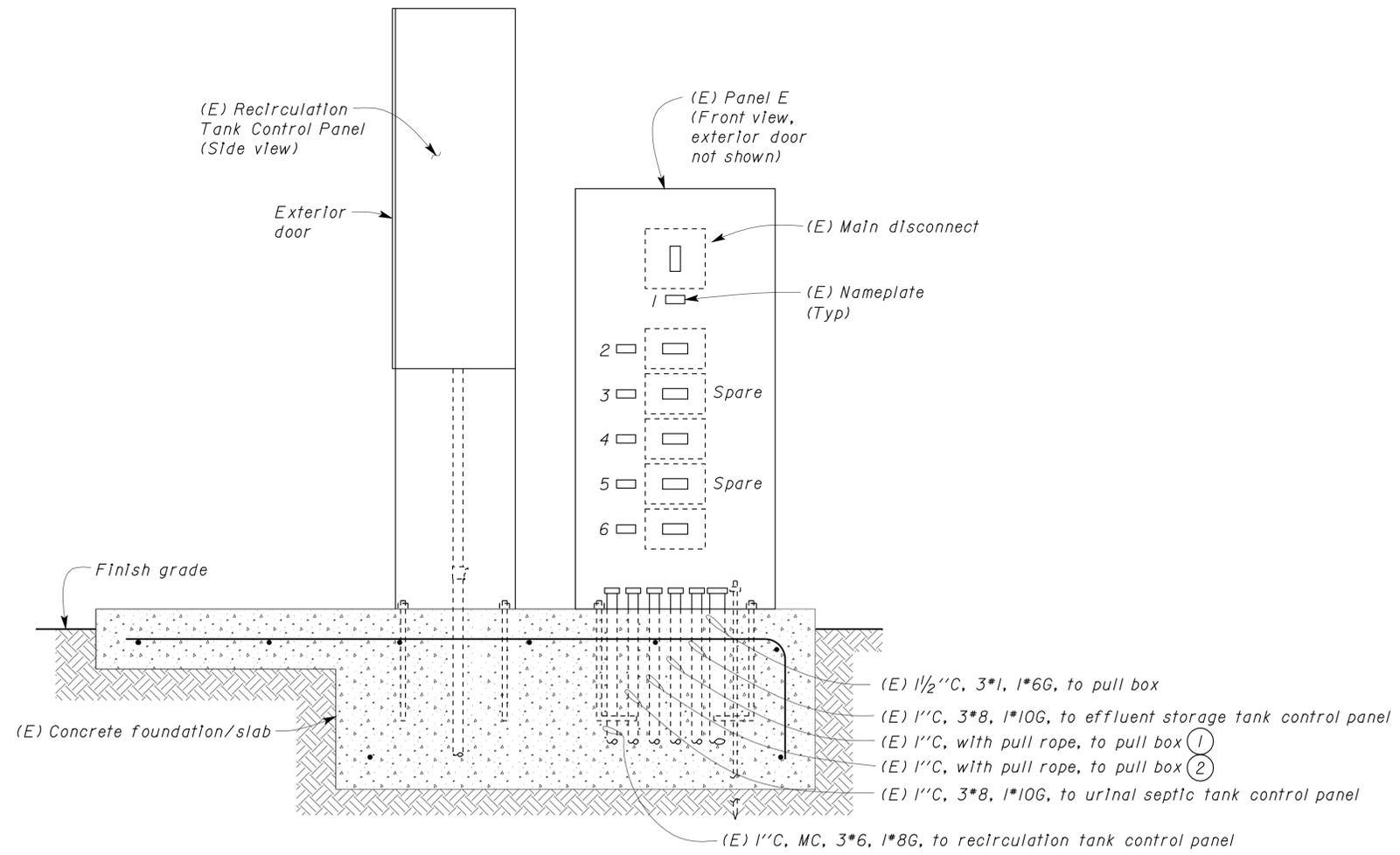
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	43	50

3-21-11
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



- Notes:
- 1) Install 3*8, 1*10G from new RV septic tank control panel. Connect to 30-ampere, 2-pole spare circuit breaker in space #3.
 - 2) Install 3*8, 1*10G from new floating fountain aerator control panel and connect to 30-ampere, 2-pole spare circuit breaker in space #5.



ELEVATION

EXISTING PANEL E
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS
POST MILE	EASTBOUND	
EXISTING PANEL E DETAILS		SHEET EE1-5

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT PROJECT NUMBER & PHASE: 3597 11000002121
 EA 261521

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	12/18/08 12/30/08 1/20/09 2/25/09 8/19/09 9/23/09	

LEGEND

- (2) 1/2" C, PVC, 2#12
- MC — CONDUIT, RIGID STEEL, UNDERGROUND
- PVC — CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
- CONDUIT, TURN UP
- CONDUIT, TURN DOWN
- ▶ ADAPTER, ONE TYPE CONDUIT TO ANOTHER
- E-E- EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
- E PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)

ABBREVIATIONS

- C CONDUIT
- (E) EXISTING
- G GROUND
- MC METALLIC CONDUIT
- (N) NEW
- PVC POLYVINYL CHLORIDE
- (T) TRAFFIC RATED
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- RV RECREATIONAL VEHICLE
- INFO INFORMATION

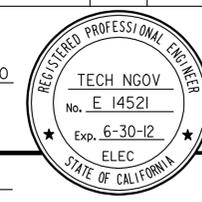
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	44	50

<i>Tech Ngov</i>	9-23-10
REGISTERED ELECTRICAL ENGINEER	DATE

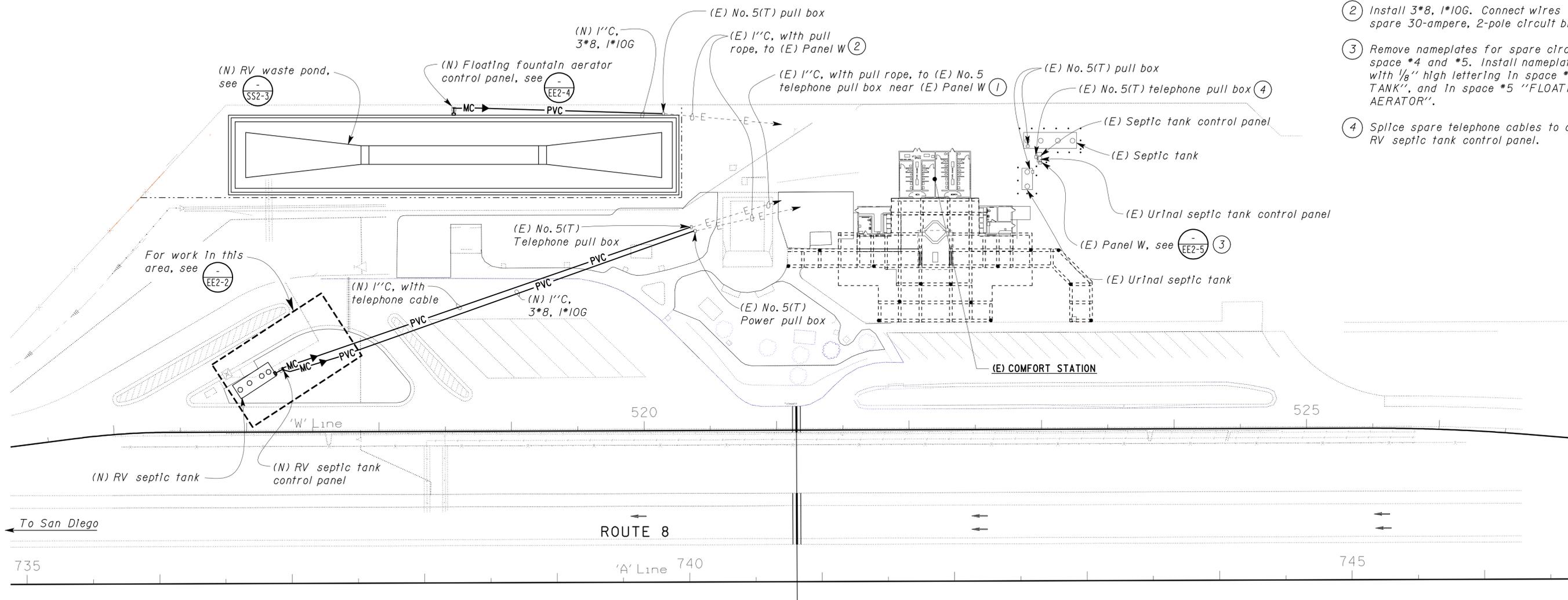
3-21-11
 PLANS APPROVAL DATE

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Notes:

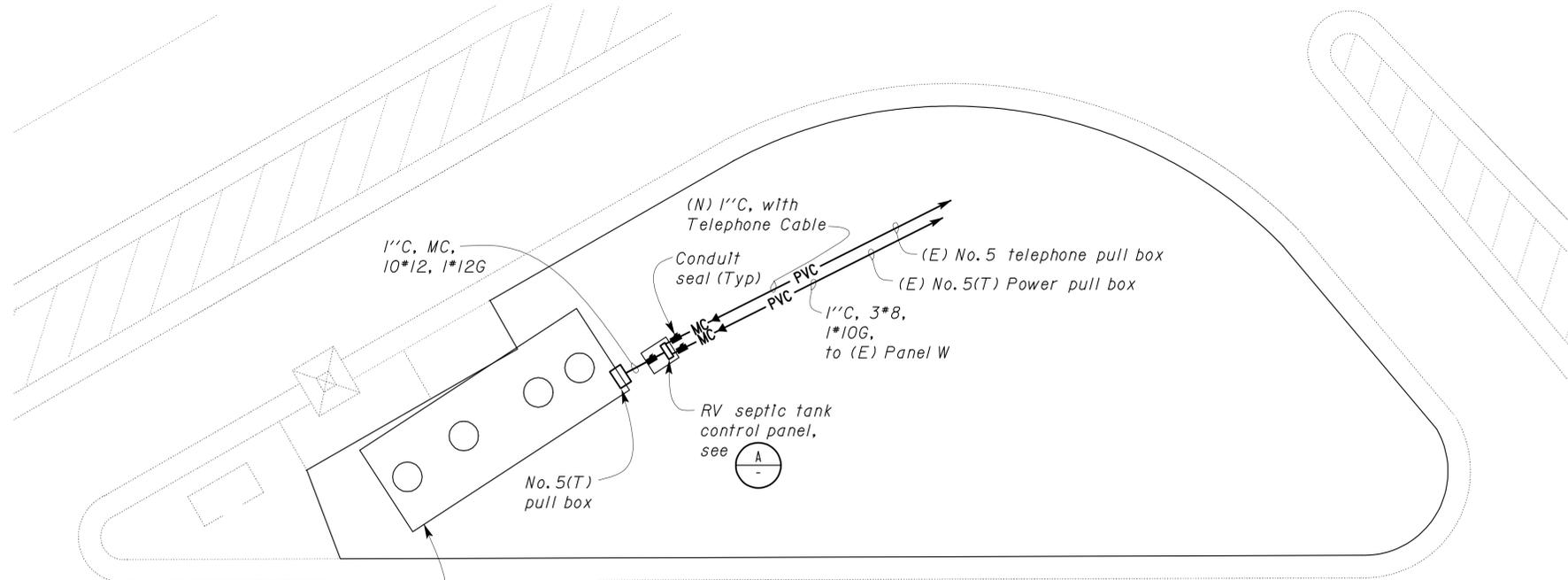
- ① Install telephone cable.
- ② Install 3#8, 1#10G. Connect wires in Panel W to spare 30-ampere, 2-pole circuit breakers.
- ③ Remove nameplates for spare circuit breakers in space #4 and #5. Install nameplate with inscription with 1/8" high lettering in space #4 "RV SEPTIC TANK", and in space #5 "FLOATING FOUNTAIN AERATOR".
- ④ Splice spare telephone cables to cable from new RV septic tank control panel.



PLAN
 SCALE 1" = 40'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Baldev S. Dehal	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003R	WESTBOUND	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS	ELECTRICAL SITE PLAN	SHEET EE2-1						
	DETAILS	BY	Kathl Andreasen	CHECKED			Baldev S. Dehal	POST MILE										
	QUANTITIES	BY	Baldev S. Dehal	CHECKED			Tech Ngov	UNIT					3597	PROJECT NUMBER & PHASE	11000002121			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET	OF
EA 261521									11/24/08 12/15/08 12/30/08 1/28/09 2/25/09 8/18/09 9/23/09 8/28/10 9/23/10						ee2_01.dgn			



RV septic tank, see EE2-3

PLAN
SCALE 1" = 10'-0"

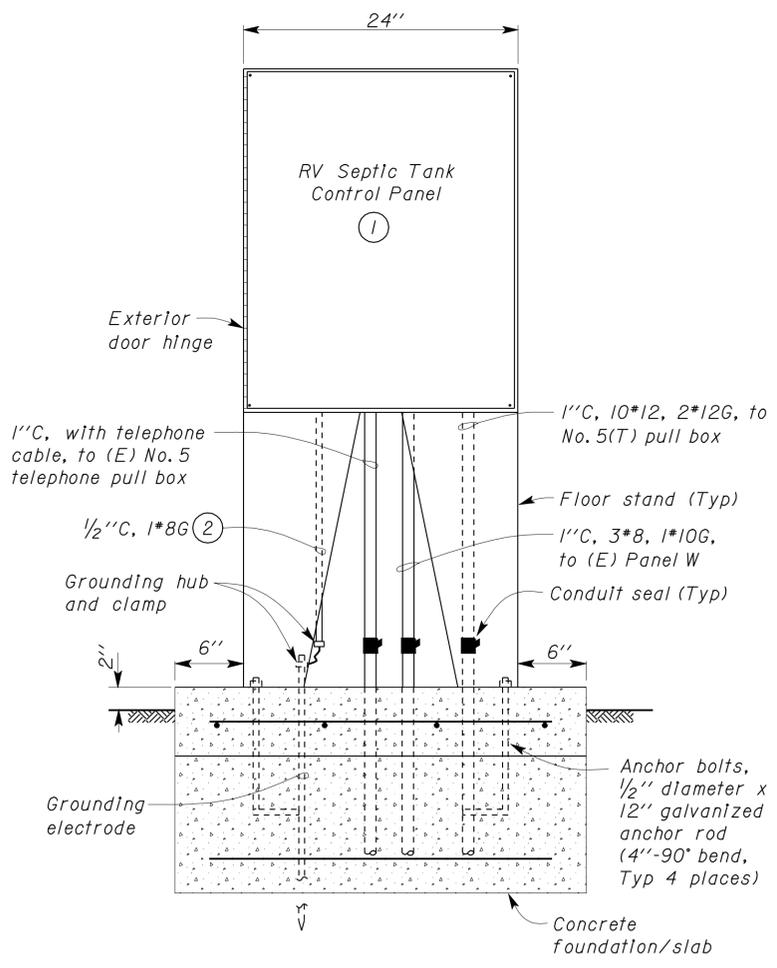


CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: FRANCIS SOLICH
Approval date: 11-03-10
CSFM File No. 01-13-11-0021

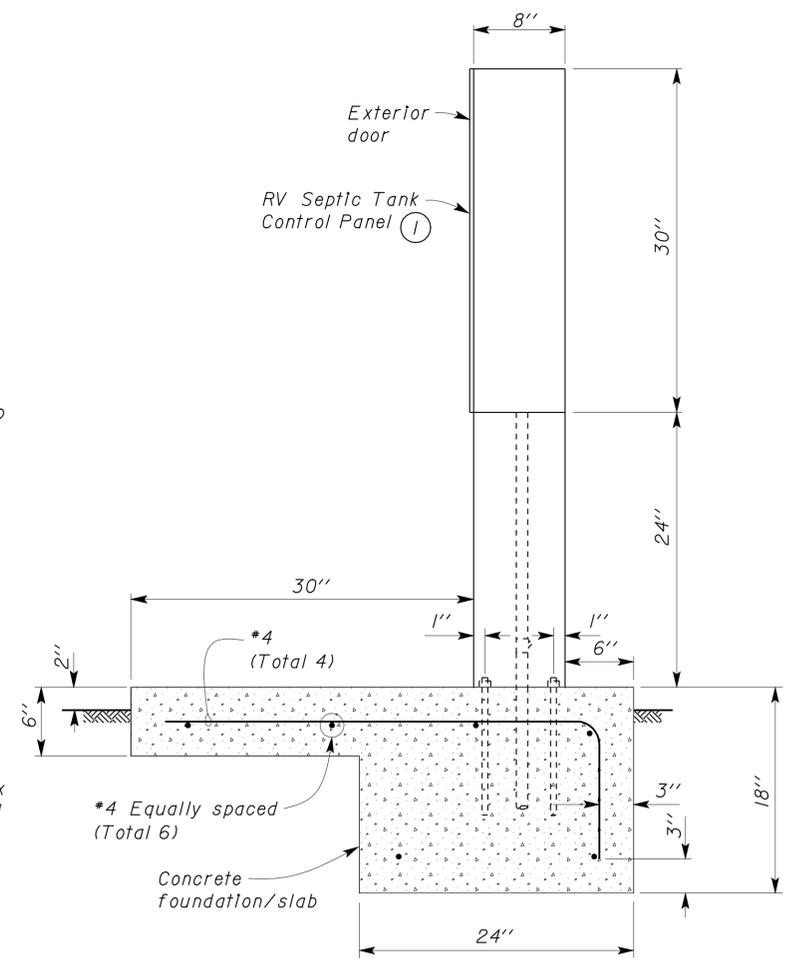
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	45	50

	9-23-10
REGISTERED ELECTRICAL ENGINEER	DATE
3-21-11	
PLANS APPROVAL DATE	
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- Notes:
- Control panel shall be supplied by duplex filtered pump system supplier. If control panel supplied is smaller than as shown, Contractor shall install the smaller cabinet inside the cabinet as shown.
 - Support conduit.



FRONT VIEW



SIDE VIEW

A ELEVATION
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech NgoV
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech NgoV

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
POST MILE WESTBOUND

SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS
ENLARGED PARTIAL SITE PLAN AND RV SEPTIC TANK CONTROL PANEL DETAILS

SHEET **EE2-2**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3597 11000002121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
1/24/08	12/15/08	12/30/08	1/28/09	2/25/09	3/23/10

SHEET OF

ee2_02.dgn

23-MAR-2011 09:11

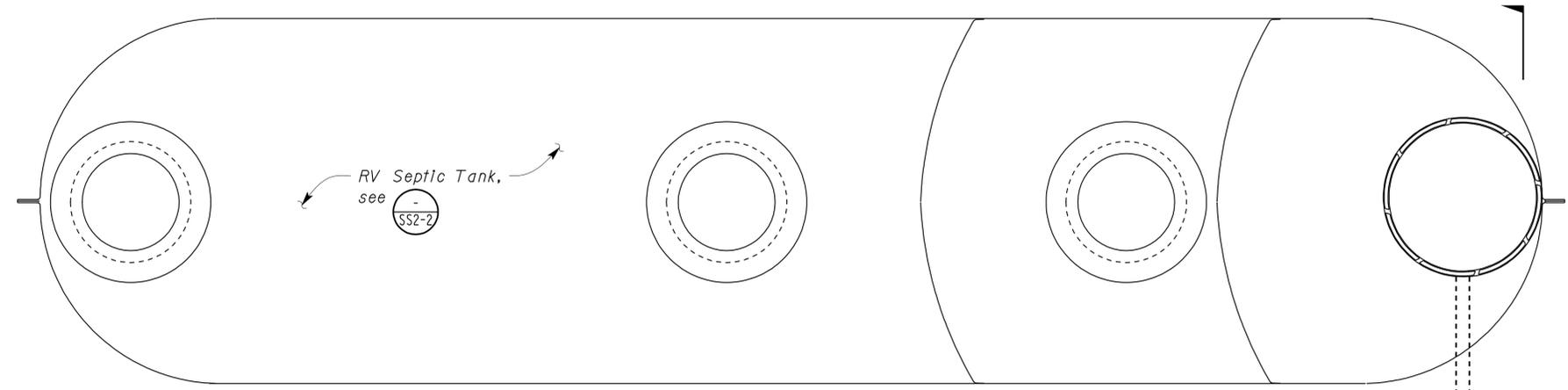
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	46	50

Reviewed by: <i>Tech Ngo</i>	9-23-10
REGISTERED ELECTRICAL ENGINEER	DATE

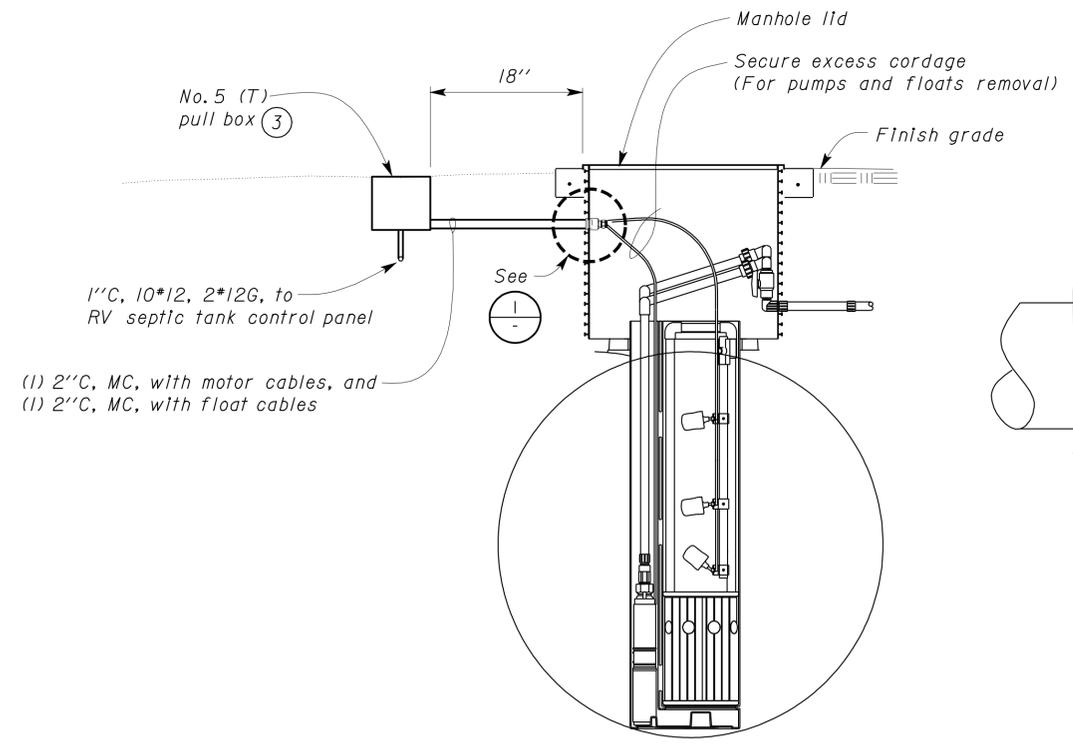
3-21-11
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

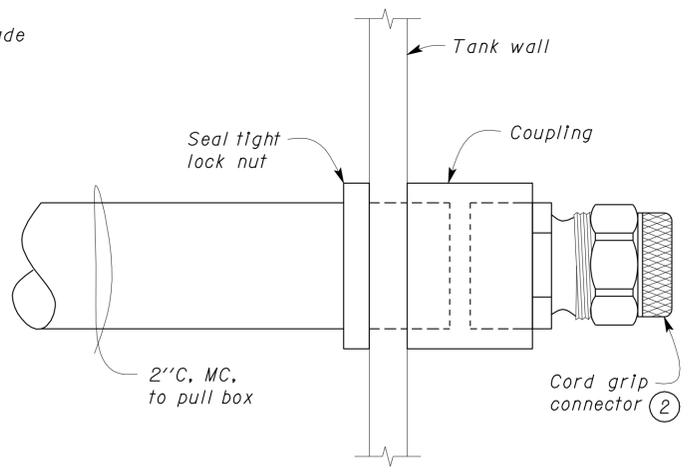
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-03-10
 CSFW File No. 01-13-11-0021



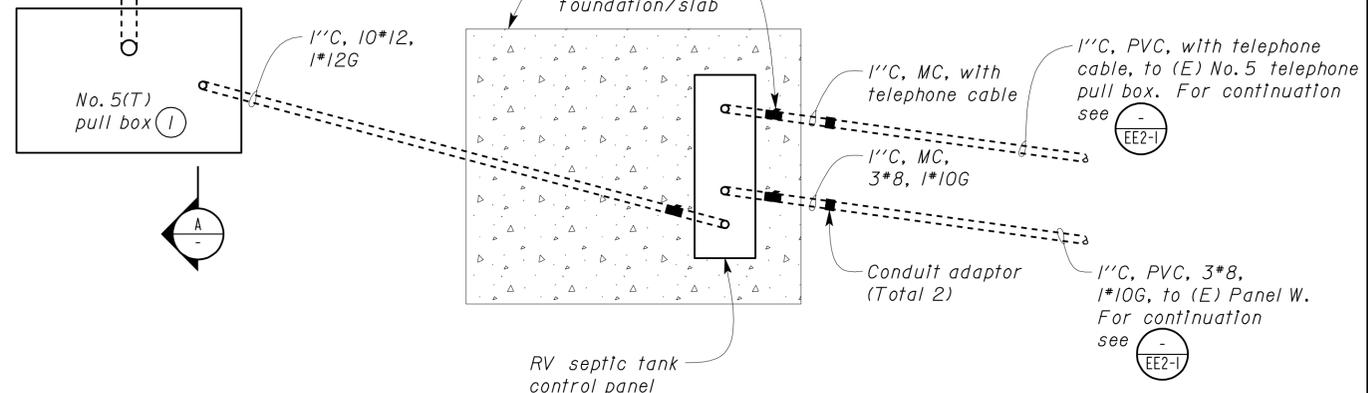
PLAN
NO SCALE



A SECTION
NO SCALE



1 DETAIL
NO SCALE



Notes:

- For pull box detail, see EE1-3.
- Provide correct size for number of cables.
- Splice motor cables and float cables to conductors from control panel.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngo
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngo

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
POST MILE WESTBOUND

SUNBEAM SAFETY ROADSIDE REST AREA
RV WASTE PONDS
RV SEPTIC TANK DETAILS

SHEET **EE2-3**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3597 11000002121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
1/24/08 2/7/08 2/7/08 1/28/09 2/25/09 3/23/09 3/23/10

SHEET OF

ee2_03.dgn

23-MAR-2011 12:15

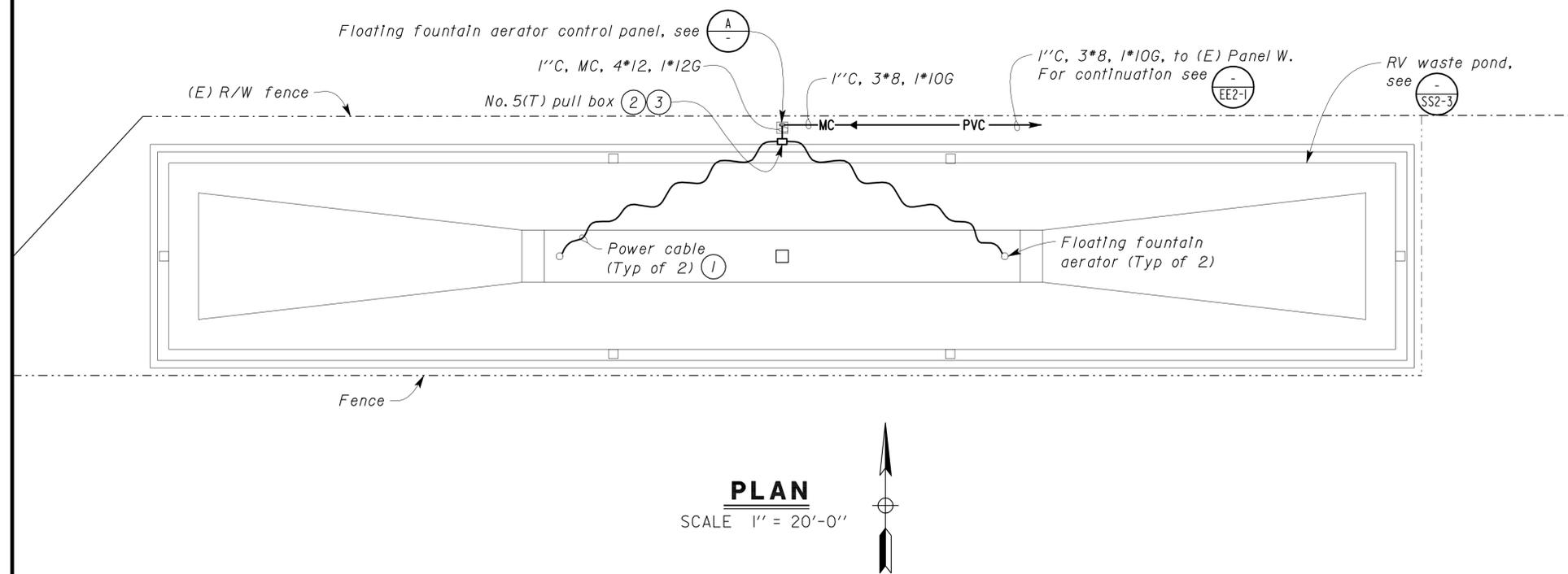
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	47	50

Reviewed by:	DATE: 9-23-10
Approval date: 11-03-10	
CSFW File No. 01-13-11-0021	

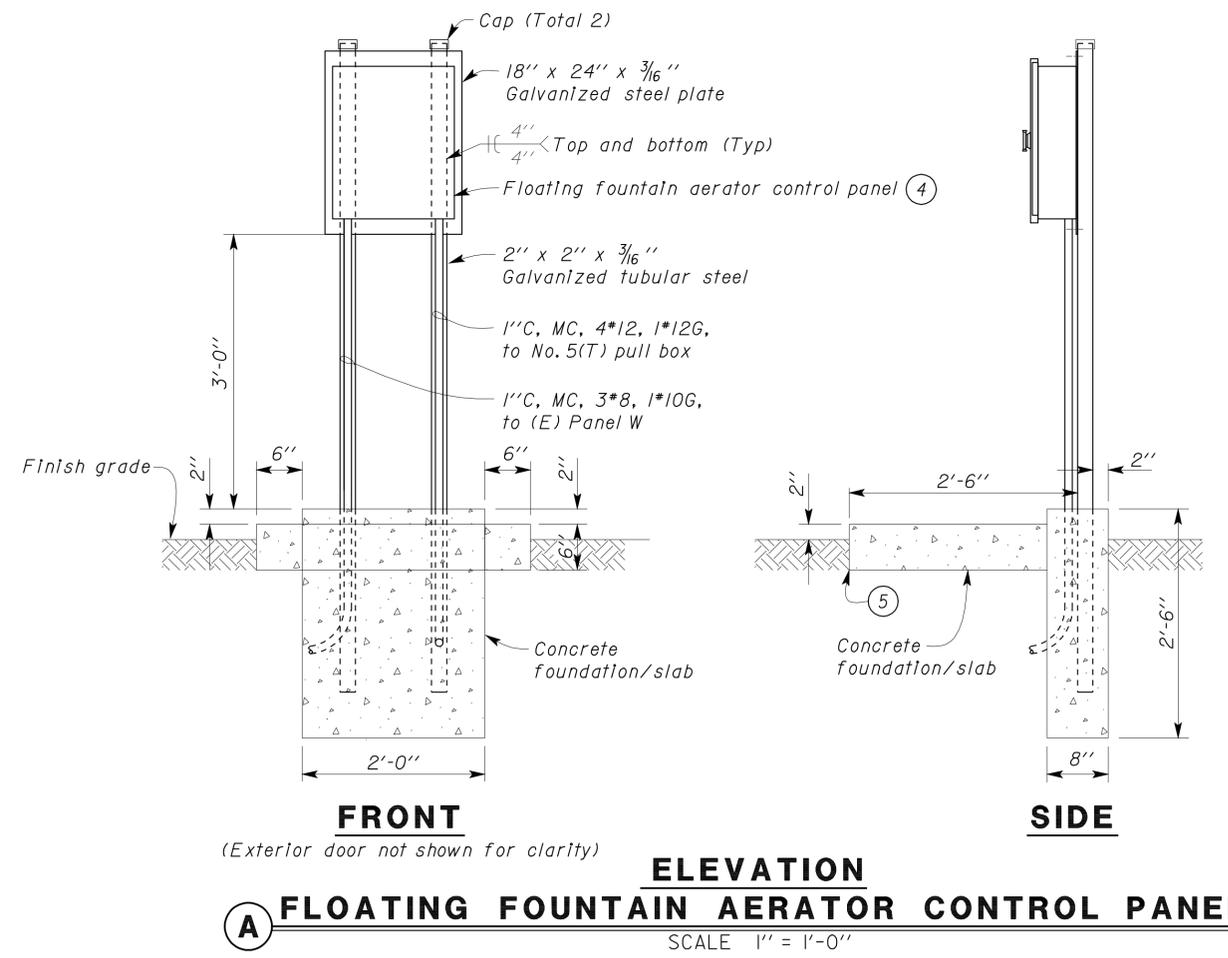
3-21-11
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by:
FRANCIS SOLICH
 Approval date: 11-03-10
 CSFW File No. 01-13-11-0021



- Notes:
- Power cable supplied by the floating fountain aerator unit manufacturer and shall be installed as recommended by the manufacturer.
 - For pull box detail see (1) EEJ-3.
 - Splice fountain unit power cables to conductors from the control panel.
 - Control panel shall be supplied by the floating fountain aerator unit manufacturer.
 - Front edge of control panel pad to be 3'-0" minimum from toe of berm.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i> QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS WESTBOUND ENLARGED PARTIAL SITE PLAN AND FLOATING FOUNTAIN AERATOR CONTROL PANEL DETAILS	SHEET EE2-4	
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			UNIT PROJECT NUMBER & PHASE 3597 11000002121		DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/24/08 12/30/08 1/28/09 2/25/09 8/19/09 9/23/09	OF

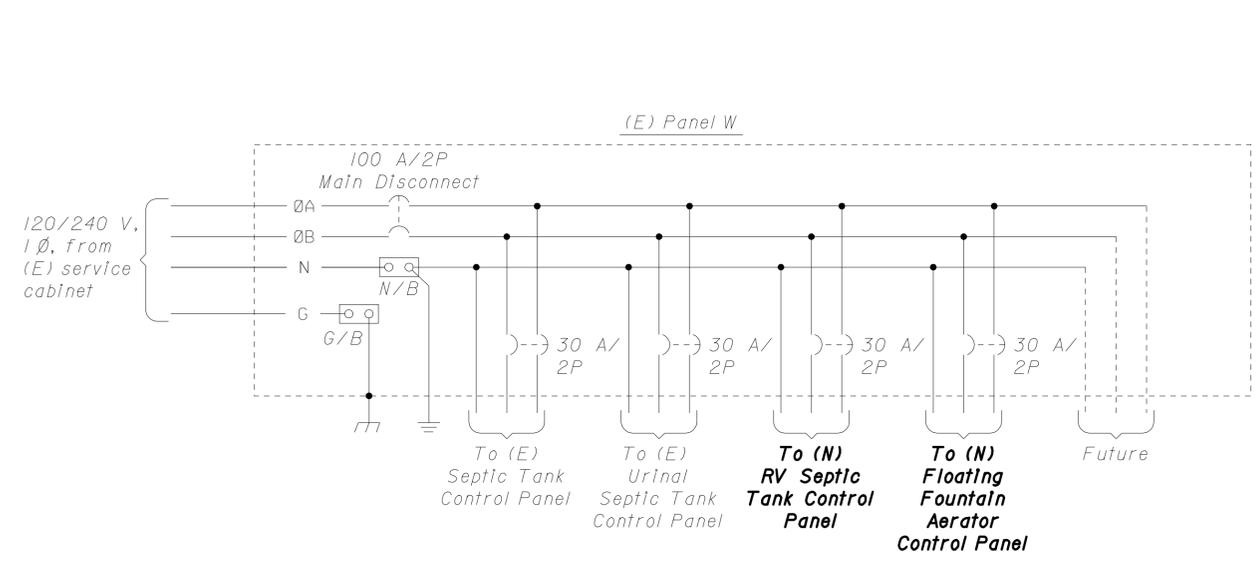
TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 11000002121 DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/24/08 12/30/08 1/28/09 2/25/09 8/19/09 9/23/09 SHEET OF OF

23-MAR-2011 09:08 ee2_04.dgn

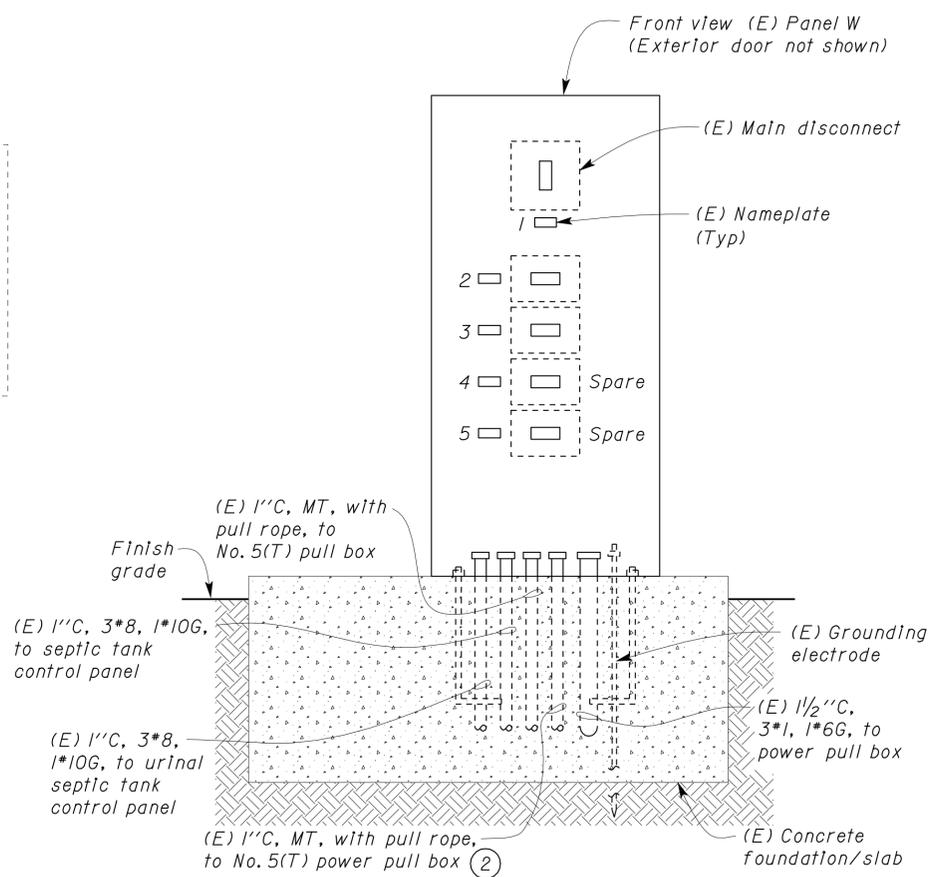
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	48	50
 REGISTERED ELECTRICAL ENGINEER DATE 9-23-10					
3-21-11					
PLANS APPROVAL DATE					
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 FRANCIS SOLICH
 Approval date: 11-03-10
 CSFM File No. 01-13-11-0021

- Notes:
- 1) Install 3*8, 1*10G, from new RV septic tank control panel and connect to 30-ampere, 2-pole spare circuit breaker in space #4.
 - 2) Install 3*8, 1*10G, from new floating fountain aerator control panel and connect to 30-ampere, 2-pole spare circuit breaker in space #5.



MODIFIED POWER SCHEMATIC



ELEVATION

A EXISTING PANEL W
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i> QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA RV WASTE PONDS WESTBOUND PANEL W DETAILS	SHEET EE2-5
			POST MILE		OF
			UNIT 3597 PROJECT NUMBER & PHASE 11000002121		DISREGARD PRINTS BEARING EARLIER REVISION DATES

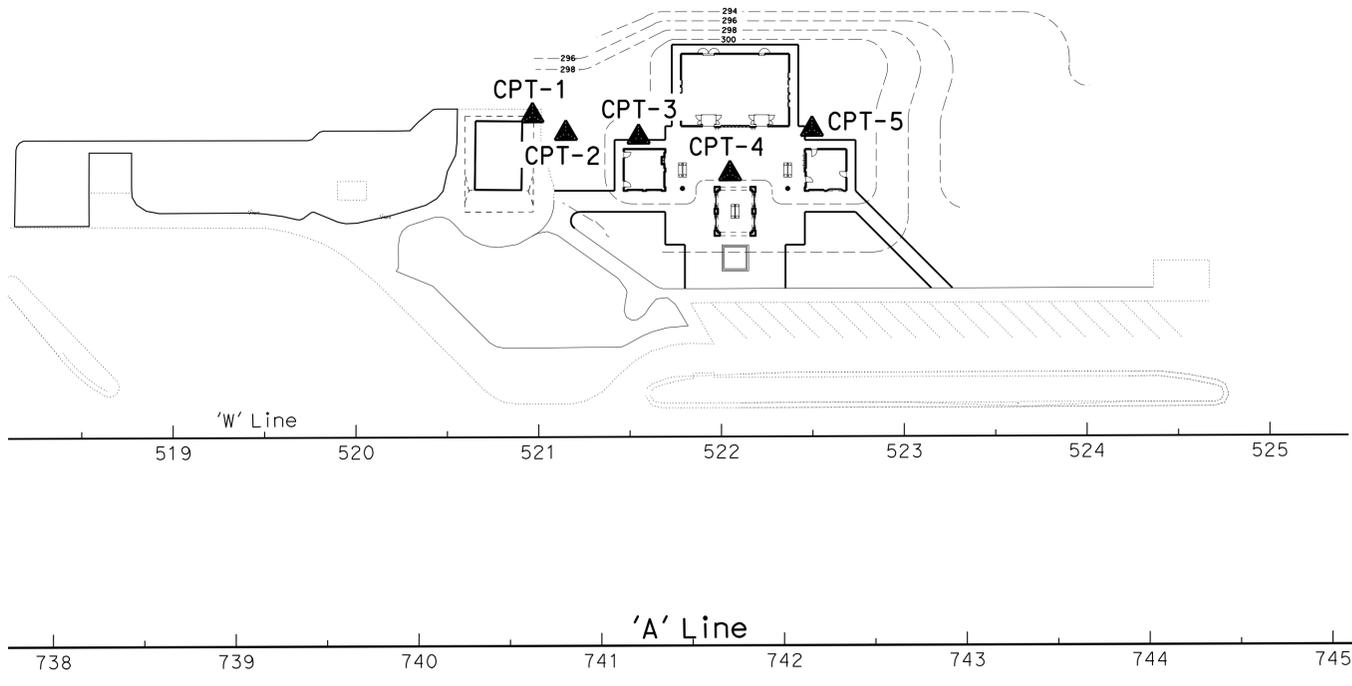
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST MILE	SHEET No	TOTAL SHEETS
11	Imp	8	R31.3		49	50

Bill Levine 1-15-08
 CERTIFIED ENGINEERING GEOLOGIST

3-21-11
 PLANS APPROVAL DATE

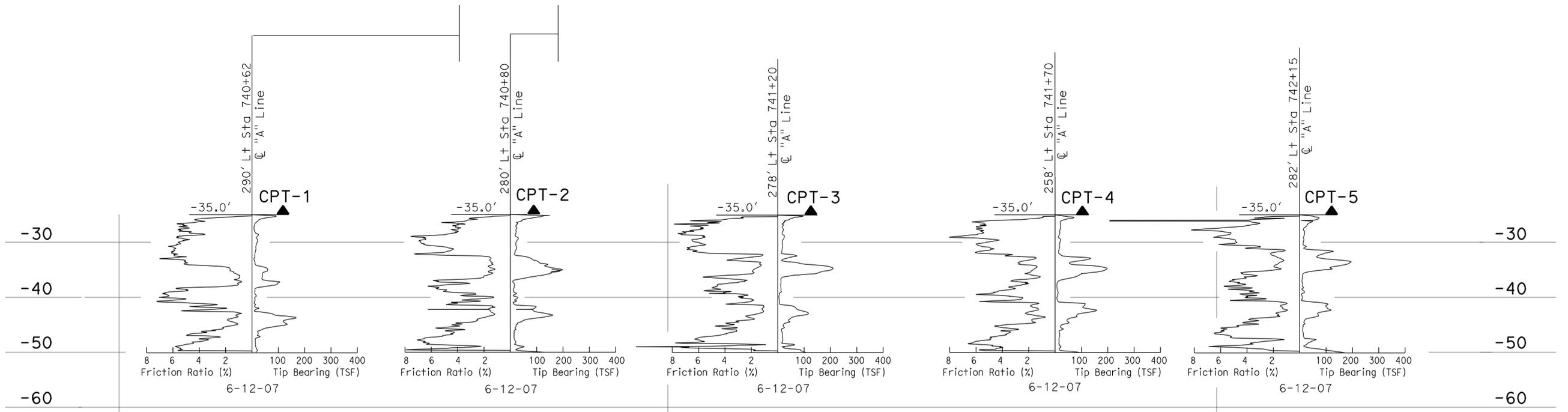
William J. Levine
 No. 2108
 Exp. 7-31-09
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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PLAN
 1" = 50'

FOR INFORMATION ONLY



PROFILE
 HOR. 1" = 10'
 VER. 1" = 10'

LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER SAMPLE BORING (DRY)

RODARY SAMPLE BORING (WET)

AUGER BORING (WET)

TEST PIT

DIAMOND CORE BORING (WET)

JET BORING

ELECTRONIC CONE PENETROMETER

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

BENCH MARK
 Boring elevations approximated from USGS Topo map Seeley.

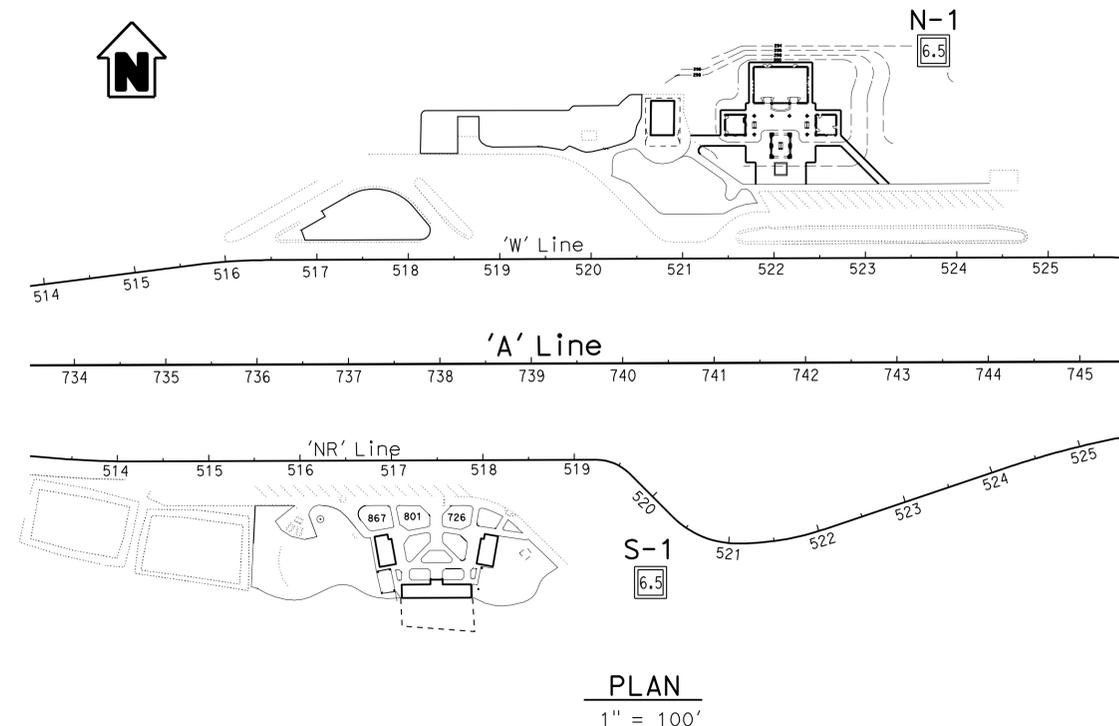
ENGINEERING SERVICES	GEOTECHNICAL SERVICES	FIELD INVESTIGATION BY: B. Levine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH	BRIDGE NO. 58R0003L POST MILE 31.30	SUNBEAM SAFETY ROADSIDE REST AREA LOG OF TEST BORINGS 1 OF 2
DRAWN BY I.G-Remmen, 1/08	CHECKED BY		CU 11 EA 261501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 49 OF 50

OGS LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 5/25/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => sf_LOG_WB_1of2.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	Imp	8	R31.3	50	50

1-15-08
 REGISTERED CIVIL ENGINEER
 Hassan Ibrahim
 No. C59016
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

3-21-11
 PLANS APPROVAL DATE
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BENCH MARK
 Boring elevations approximated from USGS Topo map Seeley.

LEGEND OF BORING OPERATIONS

2 1/4" CONE PENETROMETER
 [Symbol] PENETROMETER

2 1/4" CONE SAMPLE BORING (DRY)
 [Symbol] SAMPLE BORING

2 1/4" CONE AUGER BORING (WET)
 [Symbol] AUGER BORING

2 1/4" CONE TEST PIT
 [Symbol] TEST PIT

2 1/4" CONE DIAMOND CORE BORING
 [Symbol] DIAMOND CORE BORING

2 1/4" CONE JET BORING
 [Symbol] JET BORING

ELECTRONIC CONE PENETROMETER
 [Symbol] ELECTRONIC CONE PENETROMETER

LEGEND OF EARTH MATERIALS

GRAVEL
 [Symbol] GRAVEL

SAND
 [Symbol] SAND

SILT
 [Symbol] SILT

CLAY
 [Symbol] CLAY

SANDY CLAY or CLAYEY SAND
 [Symbol] SANDY CLAY or CLAYEY SAND

SANDY SILT or SILTY SAND
 [Symbol] SANDY SILT or SILTY SAND

SILTY CLAY
 [Symbol] SILTY CLAY

CLAYEY SILT
 [Symbol] CLAYEY SILT

PEAT and/or ORGANIC MATTER
 [Symbol] PEAT and/or ORGANIC MATTER

COBBLES and/or Boulders
 [Symbol] COBBLES and/or Boulders

SEDIMENTARY ROCK
 [Symbol] SEDIMENTARY ROCK

METAMORPHIC ROCK
 [Symbol] METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS (CONT.)

POCKET SAMPLE BORING (WET)
 [Symbol] POCKET SAMPLE BORING (WET)

CONCRETE PENETRATION TEST
 [Symbol] CONCRETE PENETRATION TEST

ELECTRONIC CONE PENETROMETER TEST
 [Symbol] ELECTRONIC CONE PENETROMETER TEST

LEGEND OF BORING OPERATIONS (CONT.)

2 1/4" CONE SAMPLE BORING (DRY)
 [Symbol] SAMPLE BORING

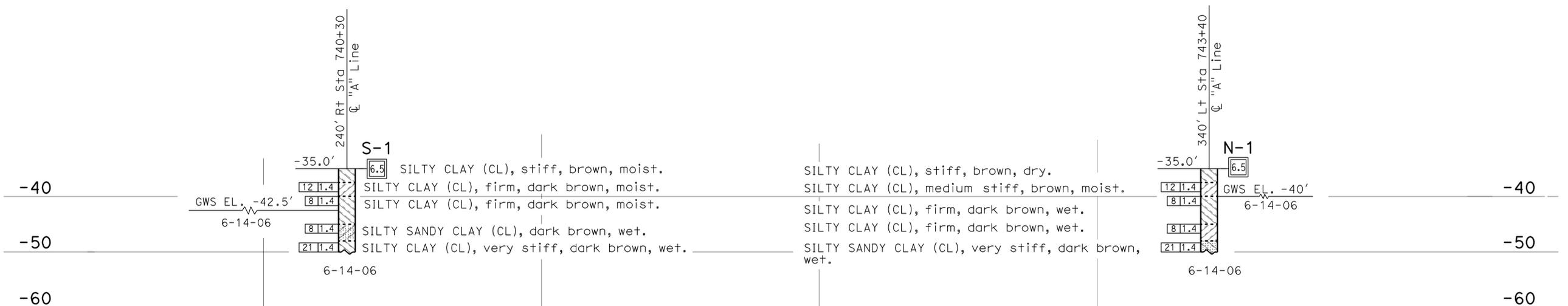
2 1/4" CONE AUGER BORING (WET)
 [Symbol] AUGER BORING

2 1/4" CONE TEST PIT
 [Symbol] TEST PIT

2 1/4" CONE DIAMOND CORE BORING
 [Symbol] DIAMOND CORE BORING

2 1/4" CONE JET BORING
 [Symbol] JET BORING

ELECTRONIC CONE PENETROMETER
 [Symbol] ELECTRONIC CONE PENETROMETER



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-value (blows per foot)	Soil Consistency
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
>50	Very Dense

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	FIELD INVESTIGATION BY: H. Ibrahim	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH	BRIDGE NO. 58R0003L POST MILE 31.30	SUNBEAM SAFETY ROADSIDE REST AREA LOG OF TEST BORINGS 2 OF 2
DRAWN BY I.G-Remmen, 1/08	CHECKED BY B. Levine					